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# 1997 Annual Report

## Vital Statistics of Massachusetts

Massachusetts Department of Public Health
Public Document No. 1

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The Commonwealth of Massachusetts
**Executive Office of Health and Human Services**
**Department of Public Health**
**Registry of Vital Records and Statistics**
**150 Mount Vernon Street, 1st Floor**
**BOSTON MA 02125-3105**

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GOVERNOR

KERRY HEALEY
LIEUTENANT GOVERNOR

RONALD PRESTON
SECRETARY

CHRISTINE FERGUSON
COMMISSIONER

January 2005

To the Honorable Clerks of the Senate
And House of Representatives:

We have the honor to submit as required by Chapter 111, Section 2 of the General Laws, the one hundred fifty-sixth annual report on statistics of births, deaths, marriages and divorces in Massachusetts for calendar year 1997. This information will also be available to the public via the Department of Public Health website at http://www.mass.gov/dph.

Since 1964, the ANNUAL REPORT OF VITAL STATISTICS has been published by the Department of Public Health and is intended to assist in the development of policy and programmatic initiatives within the Department, as well as to provide State officials and agencies, and the general public, with valuable statistical information.

Sincerely,

Stanley E. Nyberg

Stanley E. Nyberg, Ph.D.
Registrar

# ANNUAL REPORT
# VITAL STATISTICS OF MASSACHUSETTS
# PUBLIC DOCUMENT #1
# 1997

THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC HEALTH

MITT ROMNEY, GOVERNOR
KERRY HEALEY, LIEUTENANT GOVERNOR
RONALD PRESTON, SECRETARY OF HEALTH AND HUMAN SERVICES
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JANUARY 2005

# ACKNOWLEDGEMENTS

This publication of the 1997 ANNUAL REPORT OF VITAL STATISTICS is the result of the combined efforts of all data providers, including the 351 city and town clerks, hospital personnel, physicians, funeral directors, probate courts, clinics, and Department of Public Health personnel. We gratefully acknowledge the assistance of all data providers, without whose efforts there would be no vital statistics.

Department of Public Health staff most significantly involved in the production of the 1997 ANNUAL REPORT OF VITAL STATISTICS include:

> Bruce Cohen and Zi Zhang, Bureau of Health Statistics, Research and Evaluation: assistance and technical data from Advance Data: Births 1997 and Advance Data: Deaths 1997;
>
> Division of Data Processing: data file management and vital events series printouts;
>
> Karin Barrett, Assistant Registrar, Paul Budrow, Vital Statistics Data Coordinator and Pauline McNulty, Electronic Birth Certificate Hospital Coordinator: coordination of the hospital query program for birth certificate data, specialized data programming, and assistance in developing specialized table production; Jane Purtill, Director, Statistics Unit: supervision of data collection, coding and editing, with technical assistance from Maureen McKean (Statistics Unit supervisor) and Robert Coffin (Chief Nosologist).

The joint efforts of all the staff of the Registry of Vital Records and Statistics are necessary to produce the data contained in this publication. Special acknowledgement is made to the following Registry supervisors:

> Howard Wong, Director of Systems and Development, who is responsible for all computer-based systems in the Registry office;
>
> Pedro Fidalgo, Operations Unit Supervisor, who is responsible for all printing and mailing of forms;
>
> June Deloney, Registration Unit Supervisor, who is responsible for coordination with cities and towns to produce the data in a timely fashion.

The 1997 ANNUAL REPORT OF VITAL STATISTICS has been compiled and produced under the general supervision and direction of:

Stanley E. Nyberg, Ph.D., Registrar of Vital Records and Statistics
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Registry of Vital Records and Statistics
Editor

Massachusetts Department of Public Health publications and materials can be accessed on the Internet.

World Wide Web: http://www.mass.gov/dph

# CONTENTS

TRANSMITTAL LETTER

ACKNOWLEDGMENTS

TABLE OF CONTENTS

INTRODUCTION

SECTION A--VITAL EVENTS 1

| | | |
|---|---|---|
| Table A-1 | Selected Facts in Vital Statistics, Massachusetts: 1997 | 5 |
| Figure A-1 | 1997 Massachusetts Daily Vital Events | 6 |
| Table A-2 | Number and Crude Rates of Vital Events, Massachusetts and United States: 1996-1997 | 7 |
| Figure A-2 | Rate of Natural Increase, Massachusetts and United States: 1930-1997 | 8 |
| Table A-3 | Massachusetts Resident Births and Deaths With Resultant Natural Increase: 1900-1997 | 9 |
| Table A-4 | Vital Events by Month, Massachusetts Residents: 1997 | 10 |
| Table A-4A | Vital Events by Community: 1997 | 11 |
| Table A-4B | Vital Events by County: 1997 | 22 |

SECTION B—BIRTHS 23

| | | |
|---|---|---|
| Figure B-1 | Daily Birth Statistics, Massachusetts: 1997 | 31 |
| Table B-1 | Trends in Birth Characteristics, Massachusetts: 1980, 1985, 1990-1997 | 32 |
| Table B-2 | Birth Characteristics by Race and Ethnicity, Massachusetts: 1997 | 33 |
| Figure B-2 | Resident Live Births by Mother's Race/Ethnicity: 1997 | 34 |
| Figure B-3 | Resident Live Births by Mother's Age: 1997 | 35 |
| Table B-3A | Resident Birth Characteristics: 30 Largest Municipalities, Massachusetts: 1997 | 36 |
| Table B-3B | Resident Birth Characteristics: Community Health Network Areas (CHNAs), Massachusetts: 1997 | 38 |
| Table B-4 | Age-Specific and Crude Birth Rates, Massachusetts: 1990 and 1997 | 40 |

SECTION B--BIRTHS (continued)

| | | |
|---|---|---|
| Figure B-4 | Trends in the Number of Births by Mother's Age Group, Massachusetts: 1980, 1985, 1990-1997 | 41 |
| Figure B-5 | Percent of Mothers Breastfeeding or Intending to Breastfeed by Age Group, Massachusetts: 1997 | 42 |
| Figure B-6 | Smoking Prevalence During Pregnancy, by Race and Hispanic Ethnicity of Mother, Massachusetts: 1997 | 43 |
| Figure B-7 | The Distribution of Smoking Status During Pregnancy Among Women Who Were Heavy, Moderate, Light or Non-Smokers Prior to Pregnancy, Massachusetts: 1997 | 44 |
| Table B-5 | Parity by Age of Mother, Massachusetts: 1997 | 45 |
| Table B-5A | Number and Percentage Distribution of Births by Plurality and Age, Massachusetts: 1989-1997 | 46 |
| Table B-6 | Resident Births by Mother's Age, Marital Status and Race/Ethnicity, Massachusetts: 1997 | 47 |
| Table B-7 | Resident Births to Teenage Mothers: 1970-1997 | 48 |
| Table B-8 | Births by Birthweight, Race and Hispanic Ethnicity, Massachusetts: 1997 | 49 |
| Figure B-8 | Low Birthweight Among Smoking and Nonsmoking Mothers, by Race and Hispanic Ethnicity, Massachusetts: 1997 | 50 |
| Table B-9 | Low Birthweight by Maternal Age, Race and Hispanic Ethnicity, Massachusetts: 1997 | 51 |
| Table B-10 | Births by Gestational Age, Race and Hispanic Ethnicity, Massachusetts: 1997 | 52 |
| Figure B-9 | Trends in Adequacy of Prenatal Care by Race, Massachusetts: 1980-1997 | 53 |
| Table B-11 | Low Birthweight by Level of Prenatal Care, Race and Hispanic Ethnicity, Massachusetts: 1997 | 54 |
| Figure B-10 | Adequacy of Prenatal Care for Selected Population Characteristics, Massachusetts: 1997 | 55 |
| Figure B-11 | Distribution of Prenatal Care Payment Source, Massachusetts: 1997 | 56 |
| Table B-12 | Birth Characteristics by Source of Prenatal Care Payment, Race, and Hispanic Ethnicity, Massachusetts: 1997 | 57 |
| Table B-13 | Birth Characteristics by Licensed Maternity Facility, Massachusetts: 1997 | 59 |
| Table B-13A | Caesarean Section Deliveries and Vaginal Births After Caesarean Section (VBACs) by Licensed Maternity Facility, Massachusetts: 1997 | 61 |

SECTION B--BIRTHS (continued)

Table B-14A Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities: 1997 63

Table B-14B Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Counties: 1997 71

Table B-14C Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Community Health Network Areas (CHNAs): 1997 72

SECTION C--DEATHS 73

Figure C-1 Daily Death Statistics, Massachusetts: 1997 79

Table C-1 Trends in Mortality Characteristics, Massachusetts: 1980, 1985, 1990-1997 80

Figure C-2 Expected Years of Life Remaining at Different Ages for Males and Females by Race, Massachusetts: 1997 81

Table C-2 Five Leading Causes of Death, Age-Adjusted Rates, Massachusetts and United States: 1980, 1985, 1990-1997 82

Figure C-3 Crude Death Rate, Massachusetts: 1842-1997 83

Table C-3 Leading Causes of Death by Age, All Persons, Massachusetts: 1997 84

Figure C-4 Trends in Deaths from Selected Causes, Massachusetts: 1842-1997 85

Table C-4 Leading Causes of Death and Age-Adjusted Death Rates by Race and Hispanic Ethnicity, Massachusetts: 1997 86

Figure C-5 Percentage Distribution of Leading Causes of Death, Massachusetts: 1997 87

Table C-5 Number and Age-Specific Rates for Selected Causes of Death by Race and Hispanic Ethnicity, Massachusetts: 1997 88

Table C-6 Heart Disease and Cancer Deaths by Race and Sex, Age-Adjusted Rates, Massachusetts: 1980-1997 89

Table C-7 Number and Age-Adjusted Rates of Cancer Deaths by Selected Causes and Sex, Massachusetts: 1997 90

Table C-8 Selected Causes of Cancer Deaths by Age, Massachusetts: 1997 91

Table C-9 Selected Causes of Cancer Deaths and Age-Adjusted Rates by Race and Hispanic Ethnicity, Massachusetts: 1997 92

SECTION C--DEATHS (continued)

| | | |
|---|---|---|
| Figure C-6 | Suicide, Homicide and Motor Vehicle Death Rates, Massachusetts: 1844-1997 | 93 |
| Table C-10 | Injury Deaths by Sex, Age, Race and Hispanic Ethnicity: Numbers, Age-Adjusted, and Age-Specific Rates, Massachusetts: 1997 | 94 |
| Table C-11 | AIDS/HIV-Related Deaths by Sex and Race/Ethnicity, Massachusetts: 1987-1997 | 95 |
| Table C-12 | AIDS and HIV-Related Deaths by Race and Hispanic Ethnicity, Persons Ages 25-44, Massachusetts: 1989-1997 | 97 |
| Table C-13A | Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1997 | 98 |
| Figure C-7 | Proportion of Deaths Certified by Medical Examiner for Selected Causes of Death, Massachusetts Occurrence Deaths: 1997 | 101 |
| Table C-13B | Medical Examiner Certified Deaths by County, Massachusetts Occurrence: 1997 | 102 |
| Table C-14A | Selected Causes of Death by Municipality, 1997 | 103 |
| Table C-14B | Selected Causes of Death by Community Health Network Area (CHNA), 1997 | 113 |
| Table C-14C | Selected Causes of Death by County, 1997 | 114 |
| Table C-15 | Resident Deaths by Cause, Sex, and Race: 1997 | 115 |
| SECTION D--INFANT & NEONATAL DEATHS | | 129 |
| Figure D-1 | Infant Mortality Rates by Race, Massachusetts: 1980, 1985, 1989-1997 | 132 |
| Figure D-2 | Neonatal Mortality Rates by Race, Massachusetts: 1980, 1985, 1989-1997 | 133 |
| Table D-1 | Trends in Infant, Neonatal, and Post-Neonatal Mortality by Race and Hispanic Ethnicity, Massachusetts: 1989-1997 | 134 |
| Table D-2 | Trends in Infant, Neonatal, and Post-Neonatal Mortality by Race, Massachusetts: 1980-1997 | 135 |
| Table D-3 | Infant, Neonatal, and Post Neonatal Deaths by Cause, Massachusetts: 1997 | 137 |
| Table D-4 | Infant Deaths by Major Causes, Race and Hispanic Ethnicity, Massachusetts: 1997 | 138 |
| Figure D-3 | Infant Mortality Rates, Massachusetts: 1842-1997 | 139 |

SECTION E--MARRIAGES & DIVORCES 140

Table E-1 Marriages and Divorces by County, Massachusetts Occurrence: 1997 141

Figure E-1 Rates of Marriages and Divorces per 1,000 Population, Massachusetts: 1900-1997 142

Table E-2 Marriages and Divorces and Rates per 1,000 Population, Massachusetts Occurrence: 1900-1997 143

Table E-3 Marriages by Age and Marital Status, Massachusetts Occurrence: 1997 144

Table E-4 Number of Marriages by Age of Bride and Age of Groom, Massachusetts Occurrence: 1997 145

Table E-5 Number of Marriages for Bride by Number of Marriages for Groom, Massachusetts Occurrence: 1997 145

SECTION F—POPULATION 146

Figure F-1 Massachusetts Population: 1900-1997 147

Table F-1 Population by Race, Age and Sex, Massachusetts: 1990 148

Figure F-2 1990 Massachusetts Population by Age Group 150

Figure F-3 1990 Massachusetts Population by Race 151

Table F-2 Massachusetts Population by County: 1960-1990 152

Table F-3 Massachusetts Population by City and Town: 1980 and 1990 153

Table F-4 Population Counts and Estimates, Massachusetts: 1980, 1985-1997 156

APPENDICES

I Source Documents 163
  Standard Certificate of Live Birth
  Standard Certificate of Death
  Report of Fetal Death
  Certificate of Marriage
  Certificate of Absolute Divorce or Annulment

II Registry of Vital Records and Statistics Staff 168

# INTRODUCTION

The ANNUAL REPORT OF VITAL STATISTICS (Public Document No. 1) has been published continuously since 1842. This is the 34th edition produced by the Department of Public Health. This report, required under the provisions of Chapter 111, section 2, of the Massachusetts General Laws, tabulates data on Massachusetts births, fetal deaths, deaths, marriages, divorces, and population for calendar year 1997 and provides its users with an overview of the health status of the Massachusetts population. The report can be accessed on the web at http://www.mass.gov/dph.

Vital statistics data may be tabulated either in terms of resident data or occurrence data. Resident data includes all events that occur to residents of the Commonwealth, wherever the events occur. Occurrence data includes all those events that occur within the Commonwealth, including those which occur to out-of-state residents. There is an interstate exchange of copies of birth, death, and fetal death records among the fifty states, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and all Canadian provinces. These records are exchanged for statistical purposes only, for events that occur in states other than where the individual resides. This exchange allows each of the states and provinces to track the births and deaths of their residents. The majority of the data presented in this report for births and deaths is based on resident data. Marriage and divorce data, however, only reflect events that occurred within the Commonwealth.

## REGISTRATION

The first government-operated system of vital events registration anywhere in the world began in the Commonwealth of Massachusetts in 1639 under colonial administration. Prior to that time, in countries with a vital registration system such as England, the responsibility for the registration of vital events had been placed on church officials. The Massachusetts system mandated the registration of vital events by the clerks of the communities. In 1842, the Massachusetts legislature established the first statewide coordination for the registration of these events by requiring that copies of the events registered in the local cities and town is sent to the Secretary of State. The first year of collection was designated for 1841. The collection of data and the production of the ANNUAL REPORT OF VITAL STATISTICS has continued since then. With the exception of the administrative location of the State Registry, the actual mechanics of the system have changed remarkably little over the years.

With limited exceptions, most vital records in Massachusetts are open records. For open birth and death records, there is a triple registration process in Massachusetts. The event is first recorded in the city or town where the event occurred. The clerk of that community is then required to forward a certified copy of the record to both the community where the person resided at the time of the event and to the State Registry. Certified copies of the records may be issued from local or state records. If the record is a restricted record, such as those of out-of-wedlock births, the registration occurs only in the community where the event occurred and in the state office.

In addition to receiving a legal copy of each birth record from the city or town in which the birth occurred, the State Registry also receives a confidential copy of the birth record directly from the hospital or birthing center where the birth occurred. This copy includes confidential medical information in addition to the legal information. It is this copy of the record, which is processed to produce the statistical information on births contained in this report.

Since 1986, the State Registry has developed a program of direct electronic transmission of birth records from hospitals. The system used in Massachusetts is called Electronic Birth Certificate (EBC). Almost 98 percent of all birth records are now received through this method. EBC has contributed to reducing processing time at both the hospital and the State Registry, while the system's built-in edits increase the quality of the data.

The process for creating death certificates is the most complex of all vital records. Complete and accurate death records are dependent upon the following individuals: 1.) Certifier, who not only initiates the death registration process but also determines the cause of death as well as the place, time, and date of death; 2.) Funeral Director, who plays the role of facilitator in the death registration process and adds the personal data concerning the decedent, which are supplied by an informant; 3.) Burial Agent, who both issues the permit that allows the chosen disposition to take place and serves as the initial acceptor of the death certificate for official registration; and, 4.) City or Town Clerk, who records the death certificate, issues certified copies of same and forwards a copy of the death record to the Registry of Vital Records and Statistics and other communities as required by law.

The Registry of Vital Records and Statistics receives directly from hospitals or physicians the fetal death reports for fetuses of either twenty or more weeks gestation or weighing at least 350 grams. There are no local filings of fetal death reports.

Abstracts of divorces granted are also sent directly to the State Registry from the Registers of Probate from each county probate court.

## STATISTICAL PROCESSING AND TABULATING

The records received in the State Registry are carefully examined for legal errors and inconsistencies. As part of the computerization process, errors and inconsistencies are queried and corrected. A computerized hospital query program is part of the EBC program. The Registry also has a data quality assurance program that includes on-site instruction for clerks and hospital personnel who have reporting difficulties, and training for all groups involved in the data collection process.

Annually, when registration is considered as complete as possible, statistics are aggregated for presentation in this report and in special studies, and for program monitoring and surveillance.

Anyone using statistical information for comparisons over time should be aware of inconsistencies and changing conventions for classification and coding. This is particularly important when using cause of death information. Codes used for classifying cause of death in this report are based on the Ninth Revision of the International Classification of Diseases, World Health Organization. Classification of variables such as race, nativity, and marital status may also differ over time.

It is hoped that this report will be useful to a wide range of health data users in the Commonwealth, as well as to educational planners, demographers, and historians. Questions concerning these data and requests for more detailed findings should be directed to:

Massachusetts Department of Public Health
Registry of Vital Records and Statistics
150 Mt. Vernon Street
Boston, Massachusetts, 02125-3105
(617) 740-2670

# VITAL EVENTS

# SECTION A

# VITAL EVENTS

## HIGHLIGHTS

### BIRTHS

- In 1997, there were 80,321 births to Massachusetts residents.
- Births increased by 0.2% from 1996 to 1997.
- The 1997 Massachusetts birth rate per 1,000 residents was 12.9, a decrease of 0.8% from the birth rate of 13.0 in 1996.
- Massachusetts' 1997 birth rate of 12.9 per 1,000 residents was below the 1997 US rate of 14.5.
- The most births occurred in July (9.0%--7,268 births); the fewest births occurred in February (7.4%--5,923 births).

### DEATHS

- In 1997, 54,634 Massachusetts residents died.
- The number of resident deaths decreased by 1.0% from 1996 to 1997.
- The Massachusetts crude death rate decreased from 895.6 deaths per 100,000 residents in 1996 to 876.4 in 1997. The 1997 US crude death rate of 864.9 deaths per 100,000 residents was lower than the 1996 US crude death rate of 872.5. The 1997 age-adjusted death rate in Massachusetts (431.3 per 100,000 residents) was lower than the US age-adjusted death rate (478.1).
- The most deaths in 1997 occurred in January (9.7%--5,279); the fewest occurred in September (7.3%--3,987).

### FETAL DEATHS

- There were 439 reportable fetal deaths to Massachusetts residents in 1997.
- The number of reportable fetal deaths increased by nine from 1996 to 1997, resulting in a fetal death rate of 5.4 per 1,000 live births.

## INFANT DEATHS

- In 1997, 425 infant deaths (less than 1 year of age) occurred to Massachusetts residents.
- The 1997 Massachusetts infant mortality rate of 5.3 deaths per 1,000 live births was a slight increase from the 1996 infant mortality rate of 5.0 deaths per 1,000 live births.
- The black non-Hispanic infant mortality rate increased from 11.4 in 1996 to 11.7 in 1997.
- The Massachusetts 1997 infant mortality rate of 5.3 per 1,000 live births was 25.4% below the US rate of 7.1.

## MARRIAGES

- In 1997, there were 41,528 marriages in Massachusetts.
- The number of marriages in Massachusetts increased by 0.7% from 1996 to 1997.
- The 1997 Massachusetts rate of 6.7 marriages per 1,000 population was below the US rate of 8.9.
- The most marriages occurred in August (12.8%--5,328); the fewest occurred in January (3.1%--1,286).

## DIVORCES

- In 1997, 15,942 divorces were granted in Massachusetts.
- Divorces in Massachusetts increased by 2.9% from 1996 to 1997.
- The 1997 Massachusetts divorce rate of 2.6 divorces per 1,000 population was below the US rate of 4.3.
- The largest number of divorces was finalized in January (1,474--9.2%), and the fewest in November (1,104--6.9%).

## NATURAL INCREASE

- The rate of natural increase in the Massachusetts resident population increased from 4.0 in 1996 to 4.1 in 1997.
- The 1997 US natural increase rate of 5.9 remains above that of Massachusetts.

The Vital Events section provides basic information on all vital events. In addition to the information highlighted above, this section contains summary birth and death data by city, town and county. More detailed information is contained in the sections on the individual events.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

## FETAL DEATH

A fetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy; the death is indicated by the fact that after such separation the fetus does not breathe or show any other evidence of life, such as the beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.

Massachusetts law requires that fetal deaths of 20 or more weeks gestation or weighing at least 350 grams be reported; therefore, the fetal deaths referred to in this report are of that gestational age or weight.

## INFANT DEATH

Death of a child whose age is less than one year (365 days).

## MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Commonwealth.

## NATURAL INCREASE

The difference between the number of resident live births and the number of resident deaths.

## NEONATAL DEATH

Death of a child whose age is less than 28 days.

## OCCURRENCE

Occurrence data reflect where the event took place without regard to residence. In Massachusetts, place will be one of 351 cities or towns.

## RESIDENCE

The usual place of residence as reported by the mother (for births) or the informant (for deaths). An infant's residence is considered that of the mother. While occurrence data include only events that occurred within Massachusetts, residence data for births and deaths include those which may or may not have occurred in Massachusetts.

## CRUDE RATES OF VITAL EVENTS:

| | |
|---|---|
| BIRTH RATE | $\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1{,}000$ |
| FETAL MORTALITY RATE | $\frac{\text{Number of Resident Fetal Deaths}}{\text{Resident Live Births + Resident Fetal Deaths}} \times 1{,}000$ |
| INFANT MORTALITY RATE | $\frac{\text{No. of Resident Deaths <1 Year}}{\text{Resident Live Births}} \times 1{,}000$ |
| NEONATAL MORTALITY RATE | $\frac{\text{No. of Resident Deaths <28 Days}}{\text{Resident Live Births}} \times 1{,}000$ |
| DEATH RATE | $\frac{\text{No. of Resident Deaths}}{\text{Total Resident Population}} \times 100{,}000$ |
| MARRIAGE RATE | $\frac{\text{No. of Occurrence Marriages}}{\text{Total Resident Population}} \times 1{,}000$ |
| DIVORCE RATE | $\frac{\text{No. of Occurrence Divorces}}{\text{Total Resident Population}} \times 1{,}000$ |

# Table A-1
# SELECTED FACTS IN VITAL STATISTICS
# MASSACHUSETTS: 1997

## BIRTH

Age Range of Mothers: 12-53

Age Range of Fathers: 12-72

Sets of Twins: 1,428

Sets of Triplets: 83

Sets of Quadruplets: 3

Most Births Occurred on: May 23, 1997 (291 births)

Fewest Births Occurred on: January 19, 1997 (129 births)

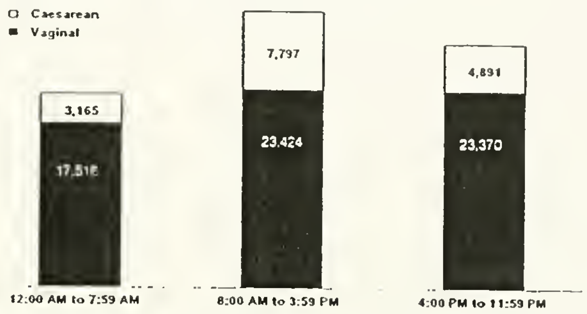
Highest # of Births at: Brigham & Women's Hospital (8,831 births)

Lowest # of Births at: Nantucket Cottage Hospital (72 births)

### Ten Most Popular Names for Babies

| *Boys' Names* | *Number* | *Girls' Names* | *Number* |
|---|---|---|---|
| Matthew | 1,155 | Emily | 745 |
| Michael | 1,094 | Samantha | 669 |
| Nicholas | 1,002 | Sarah | 617 |
| Christopher | 800 | Jessica | 505 |
| John | 781 | Hannah | 492 |
| Andrew | 740 | Julia | 450 |
| Joseph | 710 | Nicole | 418 |
| Ryan | 694 | Olivia | 409 |
| Daniel | 656 | Rachel | 406 |
| Jacob | 587 | Ashley | 401 |

**Number of Births Occurring at Specified Times of Day when Delivery Method is Known***



* Unknown delivery methods = 148
Unknown times of birth = 10

## DEATH

Male Decedents 100 Years and Older: 80

Female Decedents 100 Years and Older: 531

Most Deaths Occurred on: January 3, 1997 (202)

Fewest Deaths Occurred on: September 21, 1997 (101)

Month Most Suicides Occurred: April (58)

Months Most Homicides Occurred: December (17)

Month Most Motor Vehicle Deaths Occurred: June (63)

Weekday Most Deaths Occurred: Wednesday (7,969)

Weekday Fewest Deaths Occurred: Sunday (7,549)

## MARRIAGE

Ages of Brides: 15-80 years

Ages of Grooms: 16-82

Most Popular Month for Marriages: August (5,328)

Least Popular Month for Marriages: January (1,286)

Most Marriages Occurred on: September 20, 1997 (960)

Fewest Marriages Occurred on: January 20, 1997 (5)

Greatest Age Difference When Bride Older Than Groom: 32 years

Greatest Age Difference When Groom Older Than Bride: 41 years

## DIVORCE

Length of Marriages Involved in Divorces: < 1 year to 59 years of Marriage

Most Common Length of Marriage Prior to Divorce: 4 years

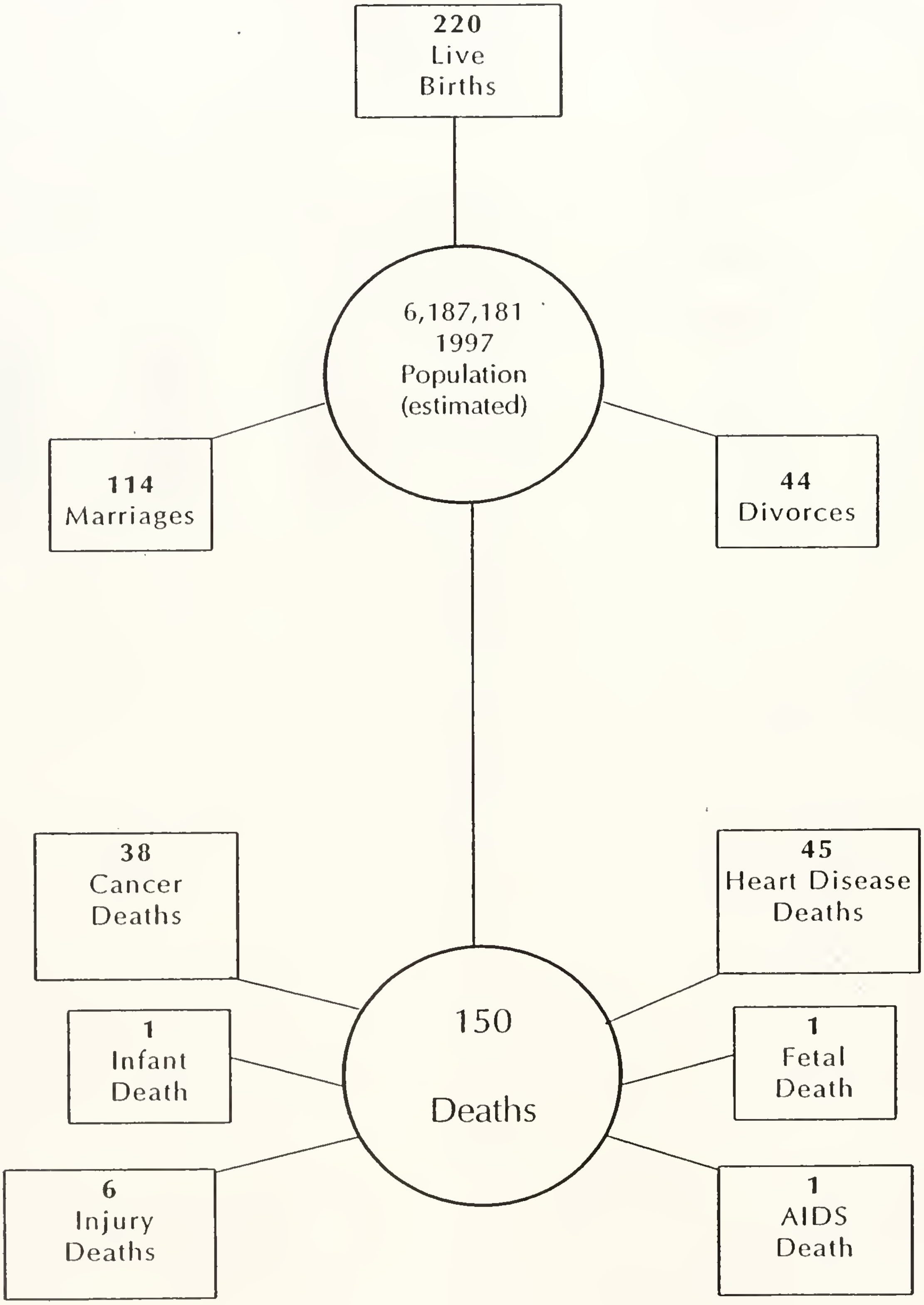
Month Most Divorces Granted: January (1,474)

Month Fewest Divorces Granted: November (1,104)

Figure A-1

## 1997 Massachusetts Daily Vital Events

Each day in 1997, Massachusetts residents had approximately:



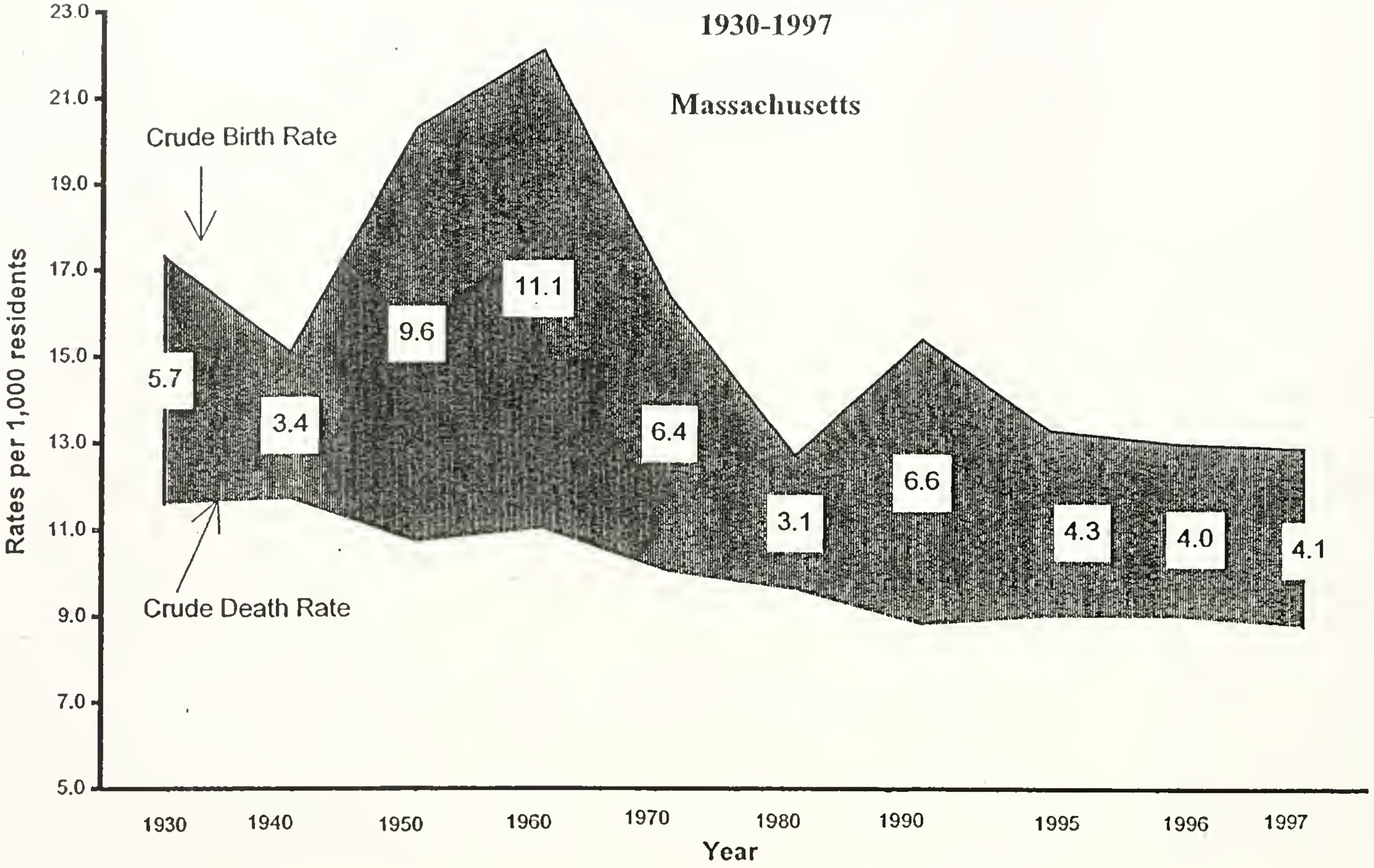
## Table A-2. Number and Crude Rates of Vital Events, Massachusetts and United States: 1996-1997

| | Massachusetts | | | | | United States | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1997 | | 1996 | | % of Rate | 1997 | | 1996 | | % of Rate |
| Vital Event | Number | Rate* | Number | Rate* | Change | Number | Rate* | Number | Rate* | Change |
| Births | 80,321 | 12.9 | 80,164 | 13.0 | -0.8 | 3,880,894 | 14.5 | 3,891,494 | 14.7 | -1.4 |
| Fetal Deaths | 439 | 5.4 | 430 | 5.3 | +1.9 | NA[2] | NA | NA | NA | NA |
| Total Deaths | 54,634 | 876.4 | 55,187 | 895.6 | -2.1 | 2,314,245 | 864.7 | 2,314,690 | 872.5 | -0.9 |
| Infant Deaths | 425 | 5.3 | 403 | 5.0 | +6.0 | 28,045 | 7.2 | 28,487 | 7.3 | -1.4 |
| Neonatal Deaths | 323 | 4.0 | 290 | 3.6 | +11.1 | 18,524 | 4.8 | 18,572 | 4.8 | 0.0 |
| Marriages[1] | 41,528 | 6.7 | 41,234 | 6.7 | 0.0 | 2,384,000 | 8.9 | 2,344,000 | 8.8 | +1.1 |
| Divorces | 15,942 | 2.6 | 15,485 | 2.5 | +4.0 | 1,163,000 | 4.3 | 1,150,000 | 4.3 | 0.0 |

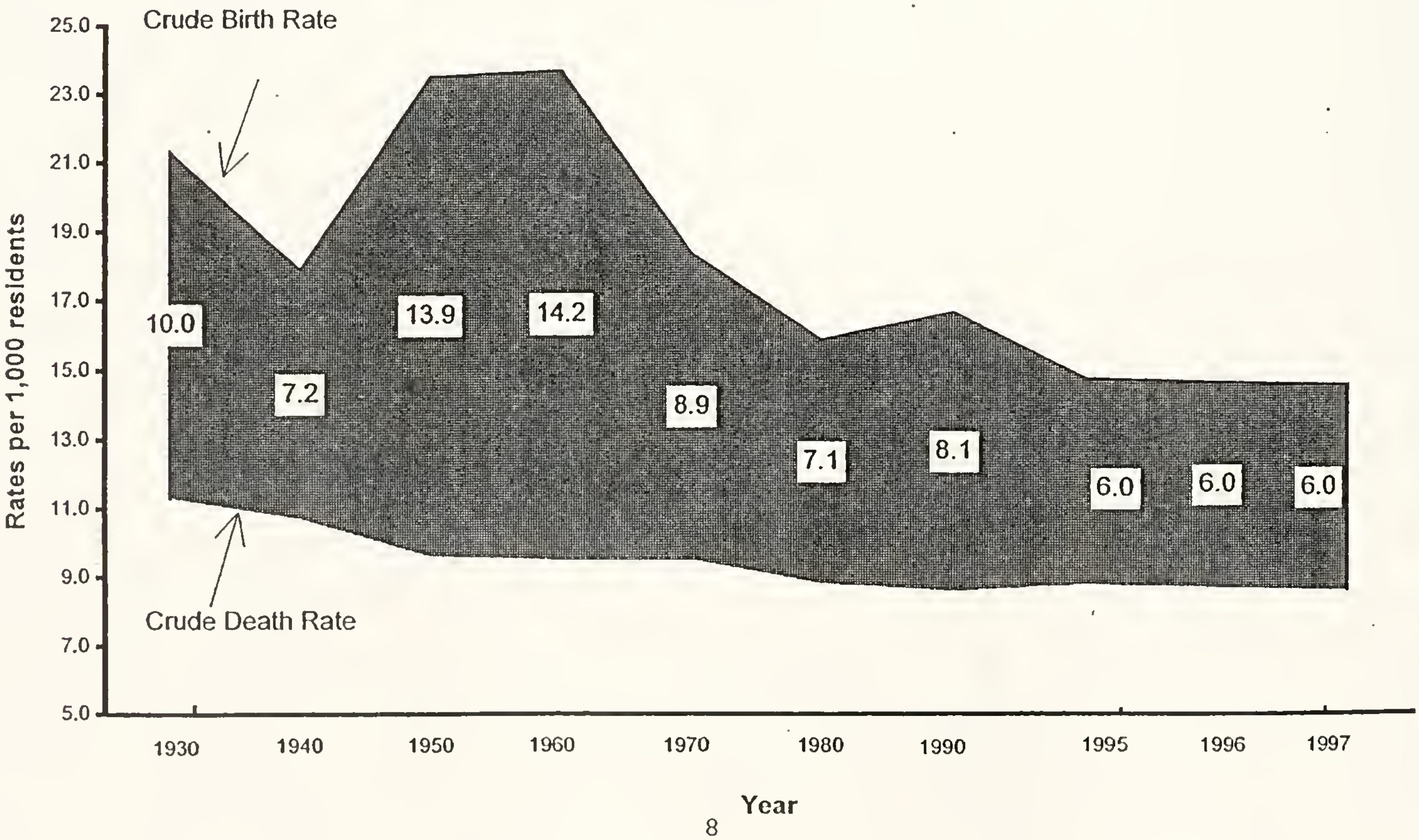
*NOTES: Neonatal and infant deaths are included in total deaths; neonatal deaths are included in infant deaths; fetal deaths are excluded from total deaths.
Figures for marriages and divorces reflect occurrence, not residence.
The rates for live births, marriages and divorces are per 1,000 population; rates for total deaths are per 100,000 population.
Rates for Infants and neonatal deaths are per 1,000 live births.
Rates for fetal deaths are per 1,000 live births and fetal deaths.

[1] United States numbers and rates for 1996 and 1997 Marriages and Divorces are provisional. [2] Not available.

## Figure A-2
## Rate of Natural Increase
## 1930-1997



United States



## Table A-3. Massachusetts Resident Births and Deaths With Resultant Natural Increase

### Massachusetts: 1900-1997

| Year | Births | Deaths | Natural Increase | Rate/1000 Residents |
|---|---|---|---|---|
| 1900 | 73,386 | 51,156 | 22,230 | 7.9 |
| 1905 | 75,022 | 50,486 | 24,536 | 8.2 |
| 1910 | 86,539 | 54,407 | 32,132 | 9.5 |
| 1915 | 93,155 | 53,131 | 40,024 | 10.8 |
| 1920 | 91,859 | 53,632 | 38,227 | 9.9 |
| 1925 | 86,014 | 51,890 | 34,124 | 8.2 |
| 1930 | 73,690 | 49,503 | 24,187 | 5.7 |
| 1935 | 62,416 | 49,634 | 12,782 | 2.9 |
| 1940 | 65,369 | 50,698 | 14,671 | 3.4 |
| 1945 | 76,455 | 50,763 | 25,692 | 5.7 |
| 1950 | 95,619 | 50,359 | 45,260 | 9.6 |
| 1955 | 109,610 | 53,386 | 56,224 | 11.6 |
| 1960 | 114,018 | 56,560 | 57,458 | 11.2 |
| 1965 | 100,262 | 58,853 | 41,409 | 7.8 |
| 1970 | 93,582 | 56,944 | 36,638 | 6.4 |
| 1975 | 68,070 | 53,708 | 14,362 | 2.5 |
| 1980 | 72,591 | 54,934 | 17,657 | 3.1 |
| 1981 | 73,930 | 52,813 | 21,117 | 3.7 |
| 1982 | 75,749 | 52,867 | 22,882 | 4.0 |
| 1983 | 76,031 | 54,150 | 21,881 | 3.8 |
| 1984 | 78,197 | 55,189 | 23,008 | 4.0 |
| 1985 | 81,781 | 55,597 | 26,184 | 4.5 |
| 1986 | 82,168 | 55,860 | 26,308 | 4.5 |
| 1987 | 84,345 | 55,562 | 28,783 | 4.9 |
| 1988 | 88,047 | 56,407 | 31,640 | 5.4 |
| 1989 | 91,314 | 53,748 | 37,566 | 6.4 |
| 1990 | 92,461 | 53,008 | 39,453 | 6.6 |
| 1991 | 88,176 | 53,010 | 35,166 | 5.8 |
| 1992 | 87,202 | 53,804 | 33,398 | 5.5 |
| 1993 | 84,627 | 55,557 | 29,070 | 4.8 |
| 1994 | 83,758 | 54,914 | 28,844 | 4.7 |
| 1995 | 81,562 | 55,296 | 26,266 | 4.3 |
| 1996 | 80,164 | 55,187 | 24,977 | 4.0 |
| 1997 | 80,321 | 54,634 | 25,687 | 4.1 |

### Table A-4. Vital Events by Month, Massachusetts Residents: 1997

| | | Births | Fetal Deaths[1] | Deaths | Infant Deaths[2] | Neonatal Deaths[2] | Marriages | Divorces |
|---|---|---|---|---|---|---|---|---|
| **Totals** | | 80,321 | 439 | 54,634 | 425 | 323 | 41,528 | 15,942 |
| **January** | # | 6,352 | 38 | 5,279 | 40 | 30 | 1,286 | 1,474 |
| | Rank | 10 | 5 | 1 | 3 | 3 | 12 | 1 |
| **February** | # | 5,923 | 38 | 4,508 | 39 | 22 | 1,725 | 1,246 |
| | Rank | 12 | 5 | 7 | 4 | 11 | 11 | 11 |
| **March** | # | 6,683 | 39 | 5,106 | 34 | 28 | 2,512 | 1,308 |
| | Rank | 8 | 4 | 2 | 7 | 6 | 9 | 8 |
| **April** | # | 6,715 | 29 | 4,589 | 32 | 23 | 2,676 | 1,366 |
| | Rank | 7 | 11 | 5 | 9 | 9 | 8 | 4 |
| **May** | # | 7,073 | 40 | 4,348 | 31 | 23 | 4,724 | 1,273 |
| | Rank | 2 | 3 | 8 | 11 | 9 | 5 | 9 |
| **June** | # | 6,896 | 37 | 4,188 | 26 | 16 | 5,083 | 1,270 |
| | Rank | 5 | 7 | 11 | 12 | 12 | 3 | 10 |
| **July** | # | 7,268 | 45 | 4,196 | 34 | 29 | 3,512 | 1,359 |
| | Rank | 1 | 2 | 10 | 7 | 4 | 6 | 5 |
| **August** | # | 7,058 | 46 | 4,230 | 41 | 37 | 5,328 | 1,346 |
| | Rank | 3 | 1 | 9 | 2 | 1 | 1 | 7 |
| **September** | # | 6,920 | 32 | 3,987 | 37 | 25 | 5,161 | 1,451 |
| | Rank | 4 | 10 | 12 | 5 | 8 | 2 | 2 |
| **October** | # | 6,768 | 24 | 4,551 | 32 | 26 | 5,060 | 1,350 |
| | Rank | 6 | 12 | 6 | 9 | 7 | 4 | 6 |
| **November** | # | 6,213 | 36 | 4,691 | 35 | 29 | 2,686 | 1,104 |
| | Rank | 11 | 8 | 4 | 6 | 4 | 7 | 12 |
| **December** | # | 6,452 | 35 | 4,961 | 44 | 35 | 1,775 | 1,395 |
| | Rank | 9 | 9 | 3 | 1 | 2 | 10 | 3 |

[1] Fetal deaths are not included in Births or Deaths. [2] Infant deaths and neonatal deaths are included in total resident deaths; neonatal deaths are included in infant deaths.

# TABLE A-4A
# VITAL EVENTS BY COMMUNITY
# 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS | | DEATHS | | INFANT DEATHS | | MARRIAGES | | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) | |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| ABINGTON | 14,768 | 0 | 189 | 75 | 121 | 1 | 1 | 86 | 79 | 68 |
| ACTON | 17,616 | 0 | 245 | 68 | 65 | 0 | 0 | 131 | 68 | 180 |
| ACUSHNET | 10,106 | 1 | 71 | 31 | 99 | 0 | 0 | 62 | 42 | -28 |
| ADAMS | 8,917 | 0 | 92 | 25 | 127 | 0 | 0 | 65 | 62 | -35 |
| AGAWAM | 28,283 | 0 | 321 | 293 | 279 | 1 | 0 | 207 | 212 | 42 |
| ALFORD | 397 | 0 | 3 | 1 | 7 | 0 | 0 | 4 | 2 | -4 |
| AMESBURY | 16,074 | 0 | 222 | 91 | 142 | 0 | 0 | 95 | 65 | 80 |
| AMHERST | 36,291 | 2 | 178 | 81 | 120 | 1 | 1 | 150 | 151 | 58 |
| ANDOVER | 27,071 | 0 | 350 | 158 | 204 | 1 | 1 | 188 | 252 | 146 |
| ARLINGTON | 41,978 | 0 | 608 | 273 | 434 | 1 | 1 | 266 | 160 | 174 |
| ASHBURNHAM | 6,101 | 0 | 59 | 12 | 32 | 1 | 1 | 19 | 27 | 27 |
| ASHBY | 2,991 | 0 | 26 | 2 | 12 | 0 | 0 | 6 | 7 | 14 |
| ASHFIELD | 1,886 | 0 | 10 | 5 | 17 | 0 | 0 | 5 | 4 | -7 |
| ASHLAND | 14,251 | 0 | 267 | 22 | 92 | 1 | 1 | 81 | 70 | 175 |
| ATHOL | 11,514 | 0 | 138 | 163 | 135 | 0 | 0 | 95 | 64 | 3 |
| ATTLEBORO | 40,903 | 831 | 585 | 451 | 341 | 1 | 1 | 271 | 215 | 244 |
| AUBURN | 15,275 | 0 | 156 | 88 | 163 | 2 | 2 | 95 | 84 | -7 |
| AVON | 4,615 | 0 | 41 | 21 | 63 | 0 | 0 | 36 | 30 | -22 |
| AYER | 7,872 | 1 | 117 | 207 | 80 | 0 | 0 | 45 | 18 | 37 |
| BARNSTABLE | 44,666 | 1,035 | 484 | 914 | 477 | 6 | 4 | 377 | 460 | 7 |
| BARRE | 4,773 | 1 | 66 | 13 | 41 | 0 | 0 | 21 | 46 | 25 |
| BECKET | 1,715 | 1 | 19 | 1 | 7 | 0 | 0 | 6 | 7 | 12 |
| BEDFORD | 11,626 | 0 | 250 | 151 | 127 | 0 | 0 | 92 | 87 | 123 |
| BELCHERTOWN | 12,668 | 0 | 177 | 26 | 75 | 0 | 0 | 64 | 55 | 102 |
| BELLINGHAM | 15,633 | 1 | 220 | 25 | 76 | 0 | 0 | 104 | 70 | 144 |
| BELMONT | 24,000 | 0 | 282 | 93 | 216 | 2 | 2 | 175 | 167 | 66 |
| BERKLEY | 5,629 | 1 | 76 | 6 | 16 | 0 | 0 | 11 | 13 | 60 |
| BERLIN | 2,307 | 0 | 27 | 2 | 15 | 0 | 0 | 14 | 12 | 12 |
| BERNARDSTON | 2,038 | 0 | 16 | 9 | 20 | 0 | 0 | 5 | 20 | -4 |
| BEVERLY | 37,482 | 2,723 | 518 | 585 | 378 | 1 | 1 | 275 | 266 | 140 |
| BILLERICA | 35,456 | 1 | 565 | 108 | 237 | 1 | 0 | 197 | 159 | 328 |
| BLACKSTONE | 9,994 | 0 | 98 | 14 | 55 | 0 | 0 | 46 | 41 | 43 |

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS | | DEATHS | | INFANT DEATHS | | MARRIAGES | | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) | |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| BLANDFORD | 1,325 | 0 | 7 | 0 | 9 | 0 | 0 | 0 | 3 | -2 |
| BOLTON | 3,602 | 0 | 48 | 5 | 10 | 0 | 0 | 14 | 19 | 38 |
| BOSTON | 585,774 | 21,041 | 7,826 | 8,011 | 4,546 | 66 | 48 | 4,406 | 4,477 | 3,280 |
| BOURNE | 17,083 | 0 | 247 | 142 | 181 | 1 | 1 | 83 | 119 | 66 |
| BOXBOROUGH | 4,407 | 0 | 62 | 5 | 13 | 0 | 0 | 10 | 18 | 49 |
| BOXFORD | 7,536 | 0 | 97 | 5 | 28 | 0 | 0 | 24 | 14 | 69 |
| BOYLSTON | 3,936 | 0 | 39 | 4 | 21 | 0 | 0 | 14 | 28 | 18 |
| BRAINTREE | 31,211 | 0 | 386 | 387 | 383 | 0 | 0 | 243 | 179 | 3 |
| BREWSTER | 10,098 | 2 | 68 | 163 | 129 | 0 | 0 | 76 | 167 | -61 |
| BRIDGEWATER | 27,014 | 2 | 285 | 38 | 129 | 1 | 1 | 114 | 90 | 156 |
| BRIMFIELD | 2,921 | 0 | 43 | 18 | 41 | 0 | 0 | 11 | 22 | 2 |
| BROCKTON | 90,740 | 2,264 | 1,429 | 1,294 | 865 | 7 | 5 | 658 | 596 | 564 |
| BROOKFIELD | 2,957 | 0 | 44 | 4 | 21 | 0 | 0 | 19 | 16 | 23 |
| BROOKLINE | 61,362 | 2 | 599 | 224 | 381 | 1 | 1 | 505 | 455 | 218 |
| BUCKLAND | 1,691 | 1 | 13 | 8 | 16 | 0 | 0 | 11 | 8 | -3 |
| BURLINGTON | 23,263 | 1 | 326 | 478 | 142 | 4 | 3 | 191 | 168 | 184 |
| CAMBRIDGE | 101,360 | 1,865 | 1,015 | 983 | 649 | 3 | 1 | 921 | 955 | 366 |
| CANTON | 18,564 | 1 | 263 | 103 | 200 | 1 | 0 | 121 | 92 | 63 |
| CARLISLE | 4,059 | 0 | 60 | 3 | 12 | 0 | 0 | 9 | 16 | 48 |
| CARVER | 11,923 | 1 | 119 | 30 | 92 | 1 | 1 | 49 | 46 | 27 |
| CHARLEMONT | 1,207 | 0 | 15 | 1 | 9 | 1 | 1 | 8 | 13 | 6 |
| CHARLTON | 11,074 | 0 | 164 | 44 | 72 | 0 | 0 | 48 | 34 | 92 |
| CHATHAM | 6,592 | 0 | 44 | 66 | 113 | 1 | 1 | 81 | 168 | -69 |
| CHELMSFORD | 33,265 | 2 | 462 | 137 | 246 | 3 | 3 | 220 | 212 | 216 |
| CHELSEA | 32,524 | 1 | 619 | 208 | 282 | 3 | 2 | 406 | 337 | 337 |
| CHESHIRE | 3,763 | 0 | 36 | 1 | 13 | 0 | 0 | 13 | 19 | 23 |
| CHESTER | 1,517 | 0 | 11 | 1 | 8 | 0 | 0 | 3 | 4 | 3 |
| CHESTERFIELD | 1,100 | 1 | 9 | 3 | 9 | 0 | 0 | 3 | 10 | 0 |
| CHICOPEE | 56,824 | 0 | 552 | 256 | 594 | 4 | 2 | 340 | 315 | -42 |
| CHILMARK | 649 | 2 | 11 | 2 | 11 | 0 | 0 | 17 | 51 | 0 |
| CLARKSBURG | 1,639 | 0 | 10 | 0 | 15 | 0 | 0 | 3 | 8 | -5 |
| CLINTON | 14,385 | 1 | 171 | 104 | 128 | 0 | 0 | 111 | 83 | 43 |

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

## TABLE A-4A
## VITAL EVENTS BY COMMUNITY
## 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS OCCURRENCE | LIVE BIRTHS RESIDENT | DEATHS OCCURRENCE | DEATHS RESIDENT | INFANT DEATHS TOTAL | INFANT DEATHS NEONATAL (2) | MARRIAGES LICENSES ISSUED (3) | MARRIAGES OCCURRENCE (4) | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| COHASSET | 6,912 | 0 | 78 | 37 | 65 | 2 | 2 | 38 | 111 | 13 |
| COLRAIN | 1,671 | 0 | 21 | 3 | 14 | 0 | 0 | 8 | 6 | 7 |
| CONCORD | 18,322 | 1,481 | 164 | 377 | 155 | 0 | 0 | 104 | 141 | 9 |
| CONWAY | 1,834 | 0 | 19 | 2 | 14 | 0 | 0 | 2 | 3 | 5 |
| CUMMINGTON | 842 | 0 | 12 | 1 | 6 | 0 | 0 | 0 | 5 | 6 |
| DALTON | 6,104 | 0 | 62 | 31 | 73 | 3 | 2 | 26 | 35 | -11 |
| DANVERS | 23,225 | 1 | 243 | 319 | 264 | 1 | 1 | 167 | 290 | -21 |
| DARTMOUTH | 28,468 | 0 | 228 | 101 | 251 | 0 | 0 | 120 | 156 | -23 |
| DEDHAM | 22,449 | 0 | 298 | 120 | 246 | 4 | 4 | 284 | 202 | 52 |
| DEERFIELD | 5,399 | 0 | 50 | 11 | 34 | 0 | 0 | 26 | 49 | 16 |
| DENNIS | 14,285 | 1 | 131 | 126 | 213 | 0 | 0 | 103 | 102 | -82 |
| DIGHTON | 5,721 | 0 | 66 | 13 | 56 | 1 | 1 | 24 | 30 | 10 |
| DOUGLAS | 6,879 | 0 | 113 | 12 | 29 | 1 | 1 | 26 | 21 | 84 |
| DOVER | 5,261 | 0 | 90 | 7 | 30 | 0 | 0 | 28 | 28 | 60 |
| DRACUT | 29,454 | 0 | 387 | 45 | 215 | 0 | 0 | 175 | 137 | 172 |
| DUDLEY | 10,481 | 0 | 101 | 12 | 74 | 0 | 0 | 42 | 64 | 27 |
| DUNSTABLE | 2,497 | 0 | 45 | 4 | 9 | 0 | 0 | 8 | 11 | 36 |
| DUXBURY | 13,966 | 0 | 174 | 62 | 112 | 0 | 0 | 62 | 103 | 62 |
| EAST BRIDGEWATER | 12,424 | 0 | 164 | 53 | 104 | 0 | 0 | 66 | 82 | 60 |
| EAST BROOKFIELD | 2,116 | 0 | 18 | 2 | 6 | 0 | 0 | 6 | 15 | 12 |
| EAST LONGMEADOW | 14,108 | 0 | 162 | 205 | 176 | 0 | 0 | 91 | 97 | -14 |
| EASTHAM | 4,757 | 0 | 34 | 20 | 47 | 0 | 0 | 31 | 47 | -13 |
| EASTHAMPTON | 16,272 | 3 | 177 | 45 | 144 | 0 | 0 | 95 | 86 | 33 |
| EASTON | 21,518 | 0 | 274 | 70 | 136 | 2 | 2 | 128 | 139 | 138 |
| EDGARTOWN | 3,419 | 1 | 48 | 10 | 27 | 0 | 0 | 92 | 176 | 21 |
| EGREMONT | 1,207 | 0 | 7 | 5 | 12 | 0 | 0 | 2 | 8 | -5 |
| ERVING | 1,674 | 0 | 16 | 6 | 20 | 0 | 0 | 5 | 7 | -4 |
| ESSEX | 2,656 | 0 | 43 | 5 | 17 | 0 | 0 | 23 | 14 | 26 |
| EVERETT | 36,874 | 0 | 542 | 414 | 314 | 0 | 0 | 337 | 236 | 228 |
| FAIRHAVEN | 16,133 | 1 | 169 | 141 | 217 | 0 | 0 | 93 | 96 | -48 |
| FALL RIVER | 92,503 | 1,627 | 1,109 | 1,452 | 1,112 | 6 | 4 | 598 | 555 | -3 |
| FALMOUTH | 30,256 | 623 | 277 | 431 | 350 | 0 | 0 | 243 | 381 | -73 |

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# TABLE A-4A
# VITAL EVENTS BY COMMUNITY
# 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS |  | DEATHS |  | INFANT DEATHS |  | MARRIAGES |  | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) |  |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| FITCHBURG | 40,642 | 4 | 513 | 384 | 430 | 1 | 1 | 260 | 210 | 83 |
| FLORIDA | 770 | 0 | 9 | 1 | 5 | 0 | 0 | 1 | 1 | 4 |
| FOXBOROUGH | 15,480 | 0 | 219 | 38 | 123 | 2 | 1 | 100 | 122 | 96 |
| FRAMINGHAM | 64,407 | 2,661 | 953 | 654 | 548 | 3 | 3 | 576 | 432 | 405 |
| FRANKLIN | 26,001 | 1 | 530 | 66 | 154 | 1 | 0 | 161 | 122 | 376 |
| FREETOWN | 8,740 | 0 | 98 | 10 | 41 | 0 | 0 | 36 | 144 | 57 |
| GARDNER | 20,754 | 444 | 217 | 295 | 221 | 3 | 2 | 140 | 125 | -4 |
| GAY HEAD | 179 | 1 | 2 | 0 | 2 | 0 | 0 | 3 | 29 | 0 |
| GEORGETOWN | 7,067 | 0 | 106 | 4 | 38 | 0 | 0 | 32 | 34 | 68 |
| GILL | 1,691 | 0 | 14 | 4 | 10 | 0 | 0 | 3 | 5 | 4 |
| GLOUCESTER | 28,314 | 2 | 353 | 336 | 322 | 3 | 2 | 234 | 375 | 31 |
| GOSHEN | 838 | 0 | 3 | 2 | 10 | 0 | 0 | 5 | 9 | -7 |
| GOSNOLD | 138 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 |
| GRAFTON | 14,116 | 1 | 202 | 24 | 99 | 0 | 0 | 89 | 59 | 103 |
| GRANBY | 6,073 | 0 | 65 | 12 | 49 | 0 | 0 | 35 | 34 | 16 |
| GRANVILLE | 1,554 | 0 | 16 | 4 | 5 | 0 | 0 | 3 | 4 | 11 |
| GREAT BARRINGTON | 7,656 | 183 | 76 | 204 | 108 | 0 | 0 | 83 | 54 | -32 |
| GREENFIELD | 18,893 | 569 | 197 | 403 | 232 | 2 | 1 | 150 | 71 | -35 |
| GROTON | 8,526 | 0 | 163 | 10 | 45 | 1 | 0 | 49 | 174 | 118 |
| GROVELAND | 5,472 | 0 | 97 | 6 | 38 | 1 | 1 | 20 | 23 | 59 |
| HADLEY | 4,641 | 1 | 50 | 59 | 50 | 0 | 0 | 15 | 29 | 0 |
| HALIFAX | 7,807 | 1 | 89 | 18 | 66 | 2 | 2 | 34 | 52 | 23 |
| HAMILTON | 7,923 | 0 | 105 | 26 | 53 | 0 | 0 | 25 | 61 | 52 |
| HAMPDEN | 4,310 | 0 | 36 | 50 | 40 | 0 | 0 | 15 | 28 | -4 |
| HANCOCK | 677 | 0 | 7 | 5 | 3 | 0 | 0 | 2 | 6 | 4 |
| HANOVER | 12,192 | 1 | 171 | 25 | 78 | 0 | 0 | 63 | 75 | 93 |
| HANSON | 9,491 | 0 | 159 | 15 | 62 | 0 | 0 | 52 | 62 | 97 |
| HARDWICK | 2,559 | 0 | 28 | 10 | 30 | 0 | 0 | 43 | 11 | -2 |
| HARVARD | 12,690 | 0 | 53 | 6 | 14 | 0 | 0 | 18 | 39 | 39 |
| HARWICH | 10,702 | 0 | 88 | 111 | 180 | 1 | 1 | 71 | 113 | -92 |
| HATFIELD | 2,870 | 0 | 35 | 8 | 34 | 0 | 0 | 8 | 8 | 1 |
| HAVERHILL | 57,561 | 529 | 858 | 556 | 514 | 7 | 6 | 329 | 327 | 344 |

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# TABLE A-4A
# VITAL EVENTS BY COMMUNITY
# 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS | | DEATHS | | INFANT DEATHS | | MARRIAGES | | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) | |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| HAWLEY | 327 | 0 | 6 | 1 | 3 | 0 | 0 | 1 | 1 | 3 |
| HEATH | 779 | 0 | 4 | 2 | 5 | 0 | 0 | 4 | 4 | -1 |
| HINGHAM | 20,179 | 1 | 284 | 113 | 170 | 0 | 0 | 145 | 203 | 114 |
| HINSDALE | 2,096 | 0 | 27 | 30 | 35 | 0 | 0 | 5 | 5 | -8 |
| HOLBROOK | 10,845 | 0 | 117 | 32 | 105 | 1 | 0 | 76 | 47 | 12 |
| HOLDEN | 15,184 | 0 | 170 | 82 | 117 | 1 | 0 | 69 | 53 | 53 |
| HOLLAND | 2,192 | 0 | 32 | 4 | 9 | 0 | 0 | 8 | 8 | 23 |
| HOLLISTON | 13,010 | 1 | 175 | 20 | 74 | 0 | 0 | 61 | 50 | 101 |
| HOLYOKE | 41,636 | 461 | 708 | 791 | 522 | 5 | 4 | 281 | 317 | 186 |
| HOPEDALE | 6,474 | 0 | 65 | 37 | 45 | 1 | 1 | 35 | 33 | 20 |
| HOPKINTON | 11,010 | 0 | 229 | 15 | 63 | 2 | 1 | 63 | 44 | 166 |
| HUBBARDSTON | 3,837 | 0 | 58 | 4 | 9 | 0 | 0 | 9 | 5 | 49 |
| HUDSON | 17,988 | 4 | 237 | 20 | 103 | 3 | 2 | 117 | 96 | 134 |
| HULL | 10,690 | 0 | 161 | 29 | 93 | 3 | 2 | 77 | 47 | 68 |
| HUNTINGTON | 2,285 | 0 | 28 | 0 | 10 | 0 | 0 | 7 | 12 | 18 |
| IPSWICH | 11,403 | 0 | 129 | 62 | 115 | 0 | 0 | 88 | 138 | 14 |
| KINGSTON | 10,829 | 0 | 190 | 68 | 91 | 0 | 0 | 58 | 56 | 99 |
| LAKEVILLE | 8,981 | 1 | 131 | 44 | 70 | 0 | 0 | 40 | 54 | 61 |
| LANCASTER | 6,557 | 1 | 62 | 21 | 41 | 0 | 0 | 21 | 26 | 21 |
| LANESBOROUGH | 2,952 | 0 | 28 | 7 | 27 | 1 | 0 | 3 | 9 | 1 |
| LAWRENCE | 69,514 | 1,421 | 1,313 | 567 | 539 | 19 | 16 | 404 | 439 | 774 |
| LEE | 5,576 | 0 | 51 | 38 | 73 | 0 | 0 | 59 | 54 | -22 |
| LEICESTER | 8,526 | 1 | 120 | 77 | 96 | 1 | 1 | 43 | 41 | 24 |
| LENOX | 4,211 | 0 | 29 | 47 | 74 | 0 | 0 | 59 | 128 | -45 |
| LEOMINSTER | 43,242 | 1,449 | 574 | 391 | 323 | 1 | 1 | 319 | 280 | 251 |
| LEVERETT | 1,863 | 1 | 8 | 5 | 7 | 0 | 0 | 2 | 6 | 1 |
| LEXINGTON | 30,072 | 1 | 286 | 231 | 264 | 0 | 0 | 170 | 220 | 22 |
| LEYDEN | 689 | 0 | 12 | 0 | 5 | 0 | 0 | 1 | 7 | 7 |
| LINCOLN | 6,577 | 1 | 56 | 12 | 36 | 0 | 0 | 25 | 79 | 20 |
| LITTLETON | 7,692 | 1 | 145 | 48 | 72 | 0 | 0 | 63 | 48 | 73 |
| LONGMEADOW | 14,781 | 1 | 144 | 80 | 149 | 0 | 0 | 87 | 63 | -5 |
| LOWELL | 109,168 | 2,850 | 1,691 | 1,331 | 971 | 8 | 7 | 691 | 596 | 720 |

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## TABLE A-4A
## VITAL EVENTS BY COMMUNITY
## 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS OCCURRENCE | LIVE BIRTHS RESIDENT | DEATHS OCCURRENCE | DEATHS RESIDENT | INFANT DEATHS TOTAL | INFANT DEATHS NEONATAL (2) | MARRIAGES LICENSES ISSUED (3) | MARRIAGES OCCURRENCE (4) | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| LUDLOW | 16,402 | 0 | 165 | 62 | 184 | 0 | 0 | 127 | 113 | -19 |
| LUNENBURG | 9,732 | 1 | 104 | 13 | 48 | 0 | 0 | 55 | 108 | 56 |
| LYNN | 82,207 | 0 | 1,356 | 722 | 829 | 17 | 11 | 627 | 562 | 527 |
| LYNNFIELD | 10,881 | 0 | 115 | 21 | 86 | 0 | 0 | 72 | 133 | 29 |
| MALDEN | 54,388 | 469 | 783 | 332 | 491 | 5 | 4 | 399 | 371 | 292 |
| MANCHESTER | 5,115 | 0 | 58 | 21 | 51 | 0 | 0 | 38 | 55 | 7 |
| MANSFIELD | 19,599 | 0 | 401 | 20 | 99 | 1 | 1 | 130 | 82 | 302 |
| MARBLEHEAD | 19,858 | 0 | 236 | 89 | 152 | 4 | 3 | 153 | 159 | 84 |
| MARION | 5,423 | 0 | 52 | 67 | 54 | 0 | 0 | 25 | 41 | -2 |
| MARLBOROUGH | 33,094 | 0 | 518 | 275 | 244 | 6 | 6 | 297 | 170 | 274 |
| MARSHFIELD | 22,337 | 0 | 353 | 46 | 167 | 2 | 2 | 150 | 127 | 186 |
| MASHPEE | 10,967 | 0 | 153 | 54 | 80 | 0 | 0 | 84 | 177 | 73 |
| MATTAPOISETT | 6,134 | 0 | 53 | 22 | 45 | 0 | 0 | 35 | 43 | 8 |
| MAYNARD | 10,375 | 0 | 170 | 20 | 83 | 0 | 0 | 61 | 48 | 87 |
| MEDFIELD | 10,972 | 0 | 182 | 21 | 50 | 0 | 0 | 31 | 18 | 132 |
| MEDFORD | 57,932 | 0 | 630 | 546 | 622 | 2 | 2 | 367 | 306 | 8 |
| MEDWAY | 11,169 | 0 | 189 | 59 | 83 | 1 | 0 | 56 | 49 | 106 |
| MELROSE | 25,990 | 1,307 | 356 | 403 | 269 | 4 | 4 | 155 | 113 | 87 |
| MENDON | 4,790 | 0 | 73 | 7 | 30 | 0 | 0 | 21 | 33 | 43 |
| MERRIMAC | 5,525 | 0 | 89 | 8 | 30 | 0 | 0 | 42 | 15 | 59 |
| METHUEN | 39,996 | 1,132 | 555 | 561 | 430 | 2 | 1 | 246 | 169 | 125 |
| MIDDLEBOROUGH | 19,163 | 0 | 272 | 110 | 151 | 0 | 0 | 121 | 108 | 121 |
| MIDDLEFIELD | 475 | 0 | 3 | 1 | 2 | 0 | 0 | 1 | 2 | 1 |
| MIDDLETON | 6,027 | 0 | 72 | 12 | 45 | 0 | 0 | 32 | 36 | 27 |
| MILFORD | 23,977 | 578 | 370 | 405 | 231 | 0 | 0 | 162 | 124 | 139 |
| MILLBURY | 12,754 | 0 | 147 | 111 | 138 | 0 | 0 | 52 | 42 | 9 |
| MILLIS | 7,294 | 1 | 126 | 7 | 35 | 0 | 0 | 65 | 89 | 91 |
| MILLVILLE | 3,001 | 0 | 43 | 0 | 10 | 0 | 0 | 10 | 8 | 33 |
| MILTON | 24,482 | 0 | 332 | 319 | 262 | 2 | 1 | 148 | 188 | 70 |
| MONROE | 146 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | -2 |
| MONSON | 8,321 | 0 | 93 | 19 | 66 | 0 | 0 | 27 | 46 | 27 |
| MONTAGUE | 7,892 | 0 | 87 | 36 | 101 | 1 | 0 | 57 | 62 | -14 |

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# TABLE A-4A
## VITAL EVENTS BY COMMUNITY
## 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS |  | DEATHS |  | INFANT DEATHS |  | MARRIAGES |  | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) |  |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| MONTEREY | 896 | 0 | 4 | 0 | 9 | 0 | 0 | 3 | 2 | -5 |
| MONTGOMERY | 824 | 0 | 6 | 7 | 6 | 0 | 0 | 1 | 3 | 0 |
| MOUNT WASHINGTON | 143 | 0 | 4 | 1 | 2 | 0 | 0 | 3 | 7 | 2 |
| NAHANT | 3,402 | 0 | 36 | 30 | 42 | 0 | 0 | 26 | 92 | -6 |
| NANTUCKET | 6,586 | 75 | 110 | 79 | 86 | 1 | 1 | 184 | 300 | 24 |
| NATICK | 29,912 | 1 | 510 | 367 | 259 | 3 | 2 | 215 | 127 | 251 |
| NEEDHAM | 27,334 | 1 | 391 | 420 | 287 | 0 | 0 | 175 | 128 | 104 |
| NEW ASHFORD | 167 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| NEW BEDFORD | 98,754 | 1,564 | 1,229 | 1,230 | 1,032 | 6 | 3 | 586 | 589 | 197 |
| NEW BRAINTREE | 922 | 0 | 10 | 3 | 9 | 0 | 0 | 4 | 3 | 1 |
| NEW MARLBOROUGH | 1,353 | 0 | 8 | 3 | 8 | 0 | 0 | 3 | 20 | 0 |
| NEW SALEM | 847 | 0 | 10 | 2 | 7 | 0 | 0 | 1 | 7 | 3 |
| NEWBURY | 6,042 | 0 | 73 | 7 | 41 | 0 | 0 | 22 | 29 | 32 |
| NEWBURYPORT | 16,727 | 726 | 197 | 382 | 184 | 1 | 1 | 167 | 141 | 13 |
| NEWTON | 82,938 | 4,262 | 832 | 572 | 645 | 6 | 5 | 641 | 542 | 187 |
| NORFOLK | 9,896 | 0 | 152 | 148 | 42 | 0 | 0 | 32 | 29 | 110 |
| NORTH ADAMS | 16,163 | 355 | 174 | 271 | 192 | 2 | 1 | 80 | 73 | -18 |
| NORTH ANDOVER | 24,975 | 0 | 345 | 152 | 216 | 2 | 1 | 127 | 159 | 129 |
| NORTH ATTLEBORO | 26,228 | 2 | 386 | 89 | 175 | 2 | 0 | 157 | 114 | 211 |
| NORTH BROOKFIELD | 4,761 | 0 | 46 | 16 | 49 | 0 | 0 | 33 | 27 | -3 |
| NORTH READING | 11,931 | 0 | 206 | 38 | 67 | 0 | 0 | 64 | 65 | 139 |
| NORTHAMPTON | 31,460 | 940 | 240 | 584 | 321 | 0 | 0 | 264 | 238 | -81 |
| NORTHBOROUGH | 12,783 | 0 | 193 | 38 | 67 | 2 | 2 | 82 | 77 | 126 |
| NORTHBRIDGE | 13,262 | 1 | 227 | 182 | 170 | 0 | 0 | 65 | 56 | 57 |
| NORTHFIELD | 2,911 | 0 | 28 | 11 | 25 | 0 | 0 | 10 | 23 | 3 |
| NORTON | 17,863 | 1 | 253 | 47 | 96 | 2 | 2 | 82 | 104 | 157 |
| NORWELL | 9,064 | 0 | 95 | 84 | 72 | 0 | 0 | 52 | 69 | 23 |
| NORWOOD | 27,220 | 997 | 333 | 543 | 311 | 5 | 5 | 188 | 164 | 22 |
| OAK BLUFFS | 3,335 | 129 | 43 | 96 | 55 | 0 | 0 | 47 | 58 | -12 |
| OAKHAM | 1,769 | 0 | 17 | 3 | 14 | 0 | 0 | 1 | 1 | 3 |
| ORANGE | 7,780 | 1 | 98 | 17 | 67 | 0 | 0 | 34 | 35 | 31 |
| ORLEANS | 6,236 | 0 | 28 | 46 | 106 | 0 | 0 | 79 | 124 | -78 |

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VITAL EVENTS BY COMMUNITY
1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS |  | DEATHS |  | INFANT DEATHS |  | MARRIAGES |  | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) |  |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| OTIS | 1,112 | 0 | 9 | 6 | 11 | 0 | 0 | 8 | 8 | -2 |
| OXFORD | 13,294 | 1 | 165 | 51 | 85 | 1 | 1 | 69 | 58 | 80 |
| PALMER | 12,163 | 2 | 134 | 106 | 137 | 1 | 1 | 74 | 54 | -3 |
| PAXTON | 4,589 | 0 | 40 | 6 | 30 | 0 | 0 | 10 | 17 | 10 |
| PEABODY | 47,504 | 1 | 569 | 339 | 484 | 4 | 2 | 306 | 254 | 85 |
| PELHAM | 1,453 | 1 | 12 | 7 | 11 | 0 | 0 | 1 | 1 | 1 |
| PEMBROKE | 15,650 | 0 | 296 | 28 | 85 | 3 | 2 | 77 | 58 | 211 |
| PEPPERELL | 11,564 | 1 | 150 | 12 | 55 | 0 | 0 | 58 | 26 | 95 |
| PERU | 774 | 0 | 8 | 2 | 2 | 0 | 0 | 3 | 4 | 6 |
| PETERSHAM | 1,319 | 0 | 10 | 7 | 13 | 0 | 0 | 6 | 16 | -3 |
| PHILLIPSTON | 1,712 | 1 | 13 | 4 | 8 | 0 | 0 | 5 | 10 | 5 |
| PITTSFIELD | 45,871 | 917 | 535 | 785 | 544 | 3 | 3 | 339 | 274 | -9 |
| PLAINFIELD | 582 | 0 | 4 | 2 | 4 | 0 | 0 | 4 | 2 | 0 |
| PLAINVILLE | 8,317 | 0 | 95 | 20 | 50 | 0 | 0 | 44 | 29 | 45 |
| PLYMOUTH | 50,204 | 823 | 677 | 570 | 442 | 4 | 4 | 280 | 273 | 235 |
| PLYMPTON | 2,884 | 0 | 30 | 3 | 11 | 0 | 0 | 11 | 12 | 19 |
| PRINCETON | 3,272 | 0 | 26 | 8 | 16 | 0 | 0 | 12 | 21 | 10 |
| PROVINCETOWN | 3,154 | 0 | 17 | 45 | 64 | 1 | 0 | 30 | 45 | -47 |
| QUINCY | 83,887 | 662 | 1,077 | 764 | 954 | 8 | 6 | 796 | 688 | 123 |
| RANDOLPH | 31,024 | 0 | 378 | 143 | 285 | 0 | 0 | 164 | 157 | 93 |
| RAYNHAM | 10,774 | 0 | 142 | 68 | 79 | 1 | 1 | 76 | 43 | 63 |
| READING | 21,838 | 0 | 347 | 72 | 169 | 2 | 2 | 108 | 104 | 178 |
| REHOBOTH | 9,457 | 1 | 98 | 15 | 42 | 0 | 0 | 42 | 51 | 56 |
| REVERE | 34,693 | 0 | 589 | 205 | 510 | 2 | 1 | 288 | 264 | 79 |
| RICHMOND | 1,601 | 0 | 12 | 4 | 16 | 0 | 0 | 8 | 10 | -4 |
| ROCHESTER | 4,678 | 0 | 36 | 8 | 19 | 0 | 0 | 21 | 19 | 17 |
| ROCKLAND | 16,827 | 0 | 246 | 80 | 156 | 4 | 3 | 128 | 115 | 90 |
| ROCKPORT | 7,791 | 0 | 85 | 49 | 90 | 0 | 0 | 49 | 112 | -5 |
| ROWE | 341 | 0 | 6 | 1 | 4 | 0 | 0 | 1 | 2 | 2 |
| ROWLEY | 5,134 | 0 | 76 | 17 | 34 | 1 | 1 | 21 | 18 | 42 |
| ROYALSTON | 1,143 | 0 | 10 | 1 | 9 | 0 | 0 | 3 | 5 | 1 |
| RUSSELL | 1,766 | 0 | 24 | 0 | 8 | 0 | 0 | 4 | 10 | 16 |

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## 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS | | DEATHS | | INFANT DEATHS | | MARRIAGES | | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) | |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| RUTLAND | 5,090 | 1 | 94 | 8 | 25 | 1 | 1 | 27 | 26 | 69 |
| SALEM | 41,944 | 1,733 | 475 | 647 | 390 | 3 | 2 | 286 | 309 | 85 |
| SALISBURY | 6,993 | 0 | 85 | 27 | 75 | 0 | 0 | 59 | 54 | 10 |
| SANDISFIELD | 598 | 1 | 8 | 5 | 9 | 0 | 0 | 1 | 2 | -1 |
| SANDWICH | 20,081 | 1 | 253 | 110 | 148 | 0 | 0 | 101 | 110 | 105 |
| SAUGUS | 24,072 | 0 | 276 | 119 | 232 | 0 | 0 | 147 | 124 | 44 |
| SAVOY | 726 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 1 | 5 |
| SCITUATE | 15,926 | 3 | 229 | 78 | 152 | 0 | 0 | 94 | 187 | 77 |
| SEEKONK | 13,119 | 3 | 129 | 24 | 85 | 1 | 1 | 124 | 104 | 44 |
| SHARON | 15,538 | 1 | 238 | 35 | 89 | 0 | 0 | 76 | 77 | 149 |
| SHEFFIELD | 3,227 | 1 | 42 | 5 | 25 | 0 | 0 | 35 | 19 | 17 |
| SHELBURNE | 2,231 | 0 | 21 | 16 | 20 | 0 | 0 | 7 | 22 | 1 |
| SHERBORN | 3,881 | 0 | 44 | 5 | 18 | 0 | 0 | 17 | 46 | 26 |
| SHIRLEY | 7,021 | 0 | 64 | 9 | 32 | 0 | 0 | 32 | 45 | 32 |
| SHREWSBURY | 27,747 | 0 | 445 | 112 | 246 | 4 | 4 | 166 | 110 | 199 |
| SHUTESBURY | 2,188 | 1 | 17 | 0 | 3 | 0 | 0 | 3 | 2 | 14 |
| SOMERSET | 17,109 | 0 | 113 | 70 | 167 | 2 | 1 | 126 | 97 | -54 |
| SOMERVILLE | 80,697 | 5 | 925 | 260 | 605 | 1 | 1 | 542 | 440 | 320 |
| SOUTH HADLEY | 17,980 | 1 | 157 | 77 | 177 | 0 | 0 | 93 | 105 | -20 |
| SOUTHAMPTON | 4,849 | 0 | 59 | 4 | 26 | 0 | 0 | 20 | 22 | 33 |
| SOUTHBOROUGH | 7,425 | 0 | 151 | 9 | 30 | 2 | 2 | 42 | 63 | 121 |
| SOUTHBRIDGE | 18,065 | 441 | 243 | 196 | 175 | 1 | 0 | 146 | 114 | 68 |
| SOUTHWICK | 8,478 | 1 | 101 | 26 | 69 | 1 | 1 | 54 | 38 | 32 |
| SPENCER | 11,953 | 0 | 133 | 30 | 95 | 0 | 0 | 73 | 104 | 38 |
| SPRINGFIELD | 155,296 | 5,814 | 2,327 | 2,276 | 1,483 | 23 | 22 | 1,044 | 950 | 844 |
| STERLING | 6,897 | 2 | 85 | 15 | 41 | 0 | 0 | 44 | 76 | 44 |
| STOCKBRIDGE | 2,043 | 0 | 7 | 6 | 17 | 0 | 0 | 19 | 35 | -10 |
| STONEHAM | 20,884 | 1,254 | 262 | 150 | 206 | 5 | 5 | 171 | 111 | 56 |
| STOUGHTON | 27,875 | 0 | 305 | 337 | 249 | 1 | 1 | 182 | 126 | 56 |
| STOW | 5,853 | 0 | 90 | 5 | 27 | 0 | 0 | 23 | 34 | 63 |
| STURBRIDGE | 7,398 | 2 | 86 | 14 | 66 | 0 | 0 | 77 | 121 | 20 |
| SUDBURY | 13,231 | 0 | 214 | 80 | 93 | 0 | 0 | 60 | 347 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|
|  |  | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES: ISSUED (3) | OCCURRENCE (4) |  |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| SUNDERLAND | 3,573 | 2 | 36 | 17 | 15 | 0 | 0 | 12 | 10 | 21 |
| SUTTON | 7,544 | 1 | 104 | 12 | 40 | 0 | 0 | 29 | 47 | 64 |
| SWAMPSCOTT | 13,881 | 0 | 173 | 71 | 148 | 0 | 0 | 82 | 87 | 25 |
| SWANSEA | 15,267 | 0 | 145 | 39 | 109 | 1 | 1 | 83 | 114 | 36 |
| TAUNTON | 53,230 | 705 | 771 | 556 | 513 | 4 | 2 | 387 | 361 | 258 |
| TEMPLETON | 7,155 | 0 | 85 | 37 | 57 | 0 | 0 | 26 | 41 | 28 |
| TEWKSBURY | 29,916 | 1 | 425 | 136 | 211 | 2 | 1 | 177 | 136 | 214 |
| TISBURY | 3,093 | 1 | 27 | 9 | 40 | 0 | 0 | 47 | 51 | -13 |
| TOLLAND | 335 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| TOPSFIELD | 5,928 | 0 | 59 | 8 | 38 | 1 | 1 | 22 | 40 | 21 |
| TOWNSEND | 8,935 | 1 | 106 | 16 | 52 | 1 | 1 | 37 | 28 | 54 |
| TRURO | 1,725 | 0 | 13 | 8 | 20 | 0 | 0 | 15 | 29 | -7 |
| TYNGSBOROUGH | 9,667 | 1 | 183 | 8 | 41 | 0 | 0 | 61 | 41 | 142 |
| TYRINGHAM | 380 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 0 |
| UPTON | 5,093 | 1 | 120 | 18 | 49 | 2 | 2 | 28 | 21 | 71 |
| UXBRIDGE | 12,309 | 0 | 175 | 14 | 89 | 0 | 0 | 59 | 72 | 86 |
| WAKEFIELD | 23,587 | 0 | 339 | 162 | 210 | 1 | 0 | 185 | 152 | 129 |
| WALES | 1,616 | 0 | 17 | 3 | 8 | 0 | 0 | 8 | 10 | 9 |
| WALPOLE | 20,999 | 0 | 285 | 68 | 155 | 1 | 1 | 148 | 113 | 130 |
| WALTHAM | 61,655 | 245 | 666 | 418 | 483 | 1 | 1 | 515 | 465 | 183 |
| WARE | 10,094 | 194 | 96 | 112 | 103 | 0 | 0 | 58 | 53 | -7 |
| WAREHAM | 20,178 | 452 | 236 | 263 | 224 | 0 | 0 | 130 | 135 | 12 |
| WARREN | 5,025 | 0 | 47 | 14 | 47 | 0 | 0 | 24 | 11 | 0 |
| WARWICK | 810 | 0 | 9 | 1 | 10 | 0 | 0 | 1 | 4 | -1 |
| WASHINGTON | 661 | 0 | 7 | 5 | 5 | 0 | 0 | 5 | 8 | 2 |
| WATERTOWN | 34,043 | 0 | 378 | 122 | 319 | 1 | 1 | 313 | 185 | 59 |
| WAYLAND | 11,800 | 0 | 186 | 36 | 80 | 1 | 1 | 49 | 68 | 106 |
| WEBSTER | 16,914 | 1 | 200 | 206 | 189 | 0 | 0 | 104 | 90 | 11 |
| WELLESLEY | 27,245 | 83 | 327 | 109 | 201 | 1 | 1 | 110 | 128 | 126 |
| WELLFLEET | 2,627 | 0 | 17 | 8 | 25 | 0 | 0 | 31 | 36 | -8 |
| WENDELL | 995 | 0 | 8 | 1 | 3 | 1 | 0 | 8 | 3 | 5 |
| WENHAM | 4,631 | 0 | 29 | 5 | 31 | 0 | 0 | 9 | 15 | -2 |

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# 1997

| COMMUNITY | POPULATION (1) | LIVE BIRTHS | | DEATHS | | INFANT DEATHS | | MARRIAGES | | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (2) | LICENSES ISSUED (3) | OCCURRENCE (4) | |
| STATE TOTAL | 6,187,187 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 41,528 | 25,687 |
| WEST BOYLSTON | 7,515 | 0 | 70 | 46 | 62 | 0 | 0 | 41 | 55 | 8 |
| WEST BRIDGEWATER | 6,717 | 0 | 55 | 76 | 62 | 0 | 0 | 57 | 59 | -7 |
| WEST BROOKFIELD | 3,699 | 0 | 37 | 39 | 32 | 0 | 0 | 17 | 60 | 5 |
| WEST NEWBURY | 3,630 | 0 | 54 | 8 | 19 | 0 | 0 | 12 | 26 | 35 |
| WEST SPRINGFIELD | 28,341 | 0 | 324 | 130 | 260 | 3 | 2 | 161 | 191 | 64 |
| WEST STOCKBRIDGE | 1,462 | 1 | 9 | 3 | 10 | 0 | 0 | 10 | 13 | -1 |
| WEST TISBURY | 2,218 | 0 | 23 | 4 | 6 | 0 | 0 | 15 | 41 | 17 |
| WESTBOROUGH | 15,995 | 1 | 220 | 136 | 155 | 3 | 2 | 110 | 101 | 65 |
| WESTFIELD | 40,921 | 4 | 432 | 358 | 348 | 2 | 1 | 261 | 302 | 84 |
| WESTFORD | 18,026 | 0 | 336 | 79 | 101 | 2 | 2 | 70 | 75 | 235 |
| WESTHAMPTON | 1,461 | 1 | 18 | 4 | 8 | 0 | 0 | 3 | 9 | 10 |
| WESTMINSTER | 6,968 | 0 | 79 | 7 | 36 | 0 | 0 | 37 | 80 | 43 |
| WESTON | 11,403 | 0 | 136 | 80 | 105 | 0 | 0 | 58 | 101 | 31 |
| WESTPORT | 14,286 | 0 | 142 | 27 | 125 | 2 | 1 | 70 | 102 | 17 |
| WESTWOOD | 12,411 | 0 | 179 | 69 | 163 | 1 | 1 | 80 | 62 | 16 |
| WEYMOUTH | 53,584 | 3,188 | 763 | 971 | 548 | 1 | 1 | 309 | 316 | 215 |
| WHATELY | 1,424 | 1 | 20 | 2 | 12 | 0 | 0 | 5 | 8 | 8 |
| WHITMAN | 12,079 | 0 | 188 | 31 | 89 | 0 | 0 | 95 | 85 | 99 |
| WILBRAHAM | 12,639 | 0 | 99 | 125 | 129 | 0 | 0 | 65 | 54 | -30 |
| WILLIAMSBURG | 2,616 | 1 | 17 | 4 | 17 | 0 | 0 | 9 | 19 | 0 |
| WILLIAMSTOWN | 8,451 | 0 | 49 | 125 | 75 | 0 | 0 | 44 | 68 | -26 |
| WILMINGTON | 18,092 | 0 | 334 | 166 | 159 | 2 | 2 | 109 | 74 | 175 |
| WINCHENDON | 9,711 | 2 | 125 | 22 | 91 | 0 | 0 | 43 | 32 | 34 |
| WINCHESTER | 18,184 | 2,039 | 244 | 392 | 212 | 0 | 0 | 113 | 135 | 32 |
| WINDSOR | 843 | 0 | 10 | 0 | 2 | 0 | 0 | 0 | 4 | 8 |
| WINTHROP | 17,312 | 1 | 207 | 105 | 203 | 0 | 0 | 168 | 140 | 4 |
| WOBURN | 35,407 | 1 | 483 | 182 | 304 | 1 | 0 | 271 | 215 | 179 |
| WORCESTER | 171,813 | 6,001 | 2,330 | 3,084 | 1,825 | 19 | 13 | 1,318 | 1,330 | 505 |
| WORTHINGTON | 1,256 | 0 | 16 | 0 | 2 | 0 | 0 | 3 | 4 | 14 |
| WRENTHAM | 10,273 | 0 | 147 | 88 | 105 | 1 | 0 | 38 | 48 | 42 |
| YARMOUTH. | 22,003 | 0 | 218 | 200 | 412 | 1 | 1 | 135 | 176 | -194 |
| UNKNOWN | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(1) POPULATION DATA ARE EXTRAPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES. COUNTY AND CITY/TOWN TOTALS ARE DIFFERENT DUE TO ROUNDING.

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

# TABLE A-4B
# VITAL EVENTS BY COUNTY
# 1997

| COUNTY | POPULATION (1,2) | LIVE BIRTHS | | DEATHS | | INFANT DEATHS | | MARRIAGES (4) | DIVORCES (4) | RESIDENT NATURAL INCREASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | OCCURRENCE | RESIDENT | OCCURRENCE | RESIDENT | TOTAL | NEONATAL (3) | | | |
| STATE TOTAL | 6,187,182 | 81,264 | 80,321 | 55,527 | 54,634 | 425 | 323 | 41,528 | 15,942 | 25,687 |
| BARNSTABLE | 205,232 | 1,662 | 2,072 | 2,444 | 2,545 | 11 | 8 | 2,254 | 648 | -473 |
| BERKSHIRE | 134,153 | 1,459 | 1,352 | 1,619 | 1,509 | 9 | 6 | 950 | 381 | -157 |
| BRISTOL | 525,406 | 4,737 | 6,485 | 4,460 | 4,791 | 32 | 21 | 3,151 | 1,569 | 1,694 |
| DUKES | 13,031 | 134 | 154 | 121 | 141 | 0 | 0 | 409 | 54 | 13 |
| ESSEX | 683,556 | 8,268 | 9,447 | 6,015 | 6,299 | 68 | 51 | 4,887 | 2,129 | 3,148 |
| FRANKLIN | 72,779 | 576 | 741 | 565 | 675 | 5 | 2 | 383 | 294 | 66 |
| HAMPDEN | 456,553 | 6,283 | 5,758 | 4,814 | 4,532 | 40 | 33 | 2,844 | 1,219 | 1,226 |
| HAMPSHIRE | 156,108 | 1,145 | 1,356 | 1,032 | 1,178 | 1 | 1 | 854 | 346 | 178 |
| MIDDLESEX | 1,429,984 | 18,457 | 19,276 | 10,654 | 11,356 | 78 | 64 | 8,939 | 2,882 | 7,920 |
| NANTUCKET | 6,586 | 75 | 110 | 79 | 86 | 1 | 1 | 300 | 45 | 24 |
| NORFOLK | 627,854 | 4,938 | 8,340 | 5,181 | 5,695 | 34 | 25 | 3,867 | 1,467 | 2,645 |
| PLYMOUTH | 458,270 | 3,550 | 6,361 | 3,330 | 3,782 | 28 | 23 | 2,876 | 1,470 | 2,579 |
| SUFFOLK | 670,303 | 21,043 | 9,241 | 8,529 | 5,541 | 71 | 51 | 5,218 | 1,320 | 3,700 |
| WORCESTER | 747,367 | 8,937 | 9,626 | 6,684 | 6,504 | 47 | 37 | 4,596 | 2,118 | 3,122 |
| UNKNOWN | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

(1) POPULATION DATA ARE EXTRAPOLATIONS OF THE 1990 U.S. CENSUS AND THE MISER 1995 ESTIMATES.

(2) COUNTY AND CITY/TOWN POPULATION TOTALS ARE DIFFERENT DUE TO ROUNDING.

(3) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(4) MARRIAGE AND DIVORCE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

# BIRTHS

# SECTION B

## BIRTHS

There were 80,321 live births to Massachusetts residents in 1997, a 0.2% increase from the 80,164 resident live births in 1996. Live births to Massachusetts residents include all births to Massachusetts residents, regardless of the state in which the births occurred. Most data presented in this section are resident data. Table B-13 presents births by licensed maternity facility of occurrence, which includes births to women who live in other states.

### OCCURRENCE BIRTHS

In 1997, 81,264 births occurred in Massachusetts. All but 260 births occurred at the 56 licensed maternity facilities in this state. The number of babies delivered at these maternity facilities ranged from 72 at Nantucket Cottage Hospital in Nantucket to 8,831 at Brigham and Women's Hospital in Boston. The four hospitals with the greatest numbers of births -- Brigham and Women's (8,831), Baystate Medical Center (5,182), Beth Israel Deaconess Medical Center (5,108), and Newton-Wellesley Hospital (4,257) -- represented 28.8% of all births occurring in Massachusetts. The distribution of Massachusetts births by hospital size is presented below.

1997 DISTRIBUTION OF MASSACHUSETTS
OCCURRENCE BIRTHS BY HOSPITAL

| NUMBER OF BIRTHS AT HOSPITAL | NUMBER OF HOSPITALS IN CATEGORY | TOTAL NUMBER OF BIRTHS IN CATEGORY | % OF TOTAL BIRTHS |
|---|---|---|---|
| < 500 | 13 | 3,610 | 4.4 |
| 500-999 | 16 | 11,610 | 14.3 |
| 1000-1499 | 9 | 11,587 | 14.2 |
| 1500-1999 | 6 | 9,727 | 12.0 |
| ≥ 2000 | 12 | 44,470 | 54.7 |
| ALL OTHER[1] | | 260 | 0.3 |
| TOTAL | 56 | 81,264 | 100.0[2] |

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[1] Includes hospitals without maternity units, home births, births en route to hospital and births occurring in a doctor's office/clinic.

[2] Percents do not sum to 100.0 due to rounding.

## BIRTHS BY RACE/ETHNICITY

There are a number of points to keep in mind when analyzing 1997 data by race/ethnicity. Since June 1986, information on both race and ethnicity rather than just race has been collected. This provides improved data, particularly for Hispanic births. Presented for comparison below are resident birth data for calendar years 1996 and 1997, utilizing maternal race and Hispanic ethnicity information:

### RACE AND HISPANIC ETHNICITY OF MOTHER
### 1996 - 1997

| MATERNAL RACE/ETHNICITY | 1997 | | 1996 | | CHANGE (1996-1997) |
|---|---|---|---|---|---|
| | TOTAL BIRTHS | % OF BIRTHS | TOTAL BIRTHS | % OF BIRTHS | |
| White non-Hispanic | 61,143 | 76.1 | 61,716 | 77.0 | - 573 |
| Black non-Hispanic | 5,457 | 6.8 | 5,473 | 6.8 | - 16 |
| Hispanic | 8,211 | 10.2 | 7,746 | 9.7 | + 465 |
| Asian | 3,876 | 4.8 | 3,594 | 4.5 | + 282 |
| Other[3] | 1,427 | 1.8 | 1,097 | 1.4 | + 330 |
| Unknown[4] | 207 | 0.3 | 538 | 0.7 | - 331 |
| TOTAL | 80,321 | 100.0 | 80,164 | 100.0[5] | + 157 |

The final point which must be considered is the method used to present data by race/ethnicity. Massachusetts follows the recommendation from the National Center for Health Statistics (NCHS) for classifying race/ethnicity on the birth certificate according to the self-reported race/ethnicity of the mother. Beginning with 1989 births, birth data are presented by race/ethnicity of the mother only.

## TEEN BIRTHS

The number of births to mothers aged 15-19 increased for the first time since 1990 -- from 5,758 in 1996 to 5,801 in 1997. The teen birth rate also rose, with the rate going from 32.6 in 1996 to the 1997 rate of 33.8 births per 1,000 women aged 15-19. However, the percentage of total births to women under age 20 continues to decrease markedly, from a peak of 12.7% in 1975 to 7.3% in 1997.

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[3] Other races include American Indian, Hawaiian, and Other.
[4] Unknown race: mothers did not indicate a race/ethnicity.
[5] Percents do not sum to 100.0 due to rounding.

## BIRTHS BY MARITAL STATUS

The percentage of births to unmarried women increased from 25.3% of all resident births in 1996 to 25.7% of all resident births in 1997. Over 90% of the mothers under the age of 20 were unmarried, while 20.6% of the mothers ages 20 or older were unmarried.

## BIRTHS BY AGE OF MOTHER

The largest percentage increases in births between the years 1996 and 1997 (7.3%) were to mothers in both the 35-39 age group and the 40-44 age group, as shown below.

| AGE OF MOTHER | NUMBER OF BIRTHS 1997 | NUMBER OF BIRTHS 1996 | DIFFERENCE IN THE NO. OF BIRTHS 1996-1997 | PERCENTAGE CHANGE 1996-1997 |
|---|---:|---:|---:|---:|
| < 20 | 5,904 | 5,849 | + 55 | + 0.9 |
| 20-24 | 11,653 | 11,919 | - 266 | - 2.2 |
| 25-29 | 20,715 | 21,496 | - 781 | - 3.6 |
| 30-34 | 26,445 | 26,354 | + 91 | + 0.3 |
| 35-39 | 13,155 | 12,260 | + 895 | + 7.3 |
| 40-44 | 2,346 | 2,186 | + 160 | + 7.3 |
| ≥ 45 | 100 | 98 | + 2 | + 2.0 |

## BIRTHS BY CAESAREAN SECTION

The number of Caesarean section deliveries in Massachusetts increased from 16,048 in 1996 to 16,122 in 1997, an increase of less than 1.0%. Caesarean section was the method of delivery for 19.9% of the 1997 occurrence births, compared to the 20.0% of Caesarean section deliveries in 1996. (Calculations are based on births with known method of delivery.)

## HOSPITAL PROFILES

The following is a synopsis of the data presented in Table B-13, Occurrence and Caesarean Births by Licensed Maternity Facility:

- In 1997, 81,264 births occurred in Massachusetts, a decrease of 13.9% since 1990. Caesarean section was the method of delivery for 19.9% of 1997 births. (Calculations are based on births with known method of delivery.)

- In 1997, at least 10% of the births in six hospitals were low birthweight. These hospitals were: Baystate Medical Center, Boston Medical Center, Brigham and Women's Hospital, Massachusetts General Hospital, Memorial Hospital (Worcester) and New England Medical Center.

- In three hospitals, 50% or more of the deliveries were paid with public funds: Boston Medical Center, Cambridge Hospital, and Mercy Hospital. In seven facilities, less than 10% of deliveries were paid with public funds: Boston Regional Medical Center, Emerson Hospital, Mount Auburn Hospital, Newton-Wellesley Hospital, South Shore Hospital, The Birthplace at Wellesley and Winchester Hospital.

- In 1997, 25 of the 56 licensed maternity facilities exceeded the state-wide average (80.1%) for adequacy of prenatal care for their patients. The three maternity facilities with the lowest reported rate of adequacy of prenatal care were: Boston Medical Center (37.6%), Memorial Hospital (62.6%), and Lawrence General Hospital (61.1%).

- Statewide, the lowest rates of Caesarean section deliveries were at the following hospitals: Hale Hospital (13.8%), Berkshire Medical Center (16.0%), Lawrence General Hospital (16.1%), Tobey Hospital (16.2%), Cambridge Hospital (16.5%), and Melrose-Wakefield Hospital (16.5%).

- In 1997, the Caesarean section rate was less than 30% for the fourth consecutive year. Three hospitals had Caesarean section delivery rates of 25% or more (Falmouth Hospital, Mary Lane Hospital and North Adams Regional Hospital).

## LOW BIRTHWEIGHT INFANTS

The percentage of low birthweight infants (less than 2,500 grams or five pounds eight ounces) increased from 6.4% in 1996 to 7.0% in 1997. The number of low birthweight deliveries increased from 5,105 births in 1996 to 5,617 births in 1997. This increase was due primarily to two factors: first, an increase in the number of multiple births which have a much higher probability of being low birthweight; and second, an increase in the low birthweight rate for singleton births from 4.8% in 1996 to 5.1% in 1997. The increase in low birthweight among singletons may be due in part to more complete reporting of extremely low birthweight live births.

## DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

### ADEQUACY OF PRENATAL CARE

The Index of Adequacy of Prenatal Care (based on the Kessner Index) has five categories (adequate, intermediate, inadequate, no prenatal care, and unknown), based on the trimester in which prenatal care began and the number of prenatal visits. The general classification scheme is as follows:

| CATEGORY | TRIMESTER CARE BEGAN | # OF VISITS |
|---|---|---|
| Adequate | 1 | 9 or more |
| Intermediate | 1 | 5-8 |
|  | 2 | 5 or more |
| Inadequate | 1 | 1-4 |
|  | 2 | 1-4 |
|  | 3 | 1 or more |
| No prenatal care | -- | 0 |
| Unknown | Unknown | Unknown |

This classification is adjusted for gestational age to allow for proper classification of premature births.

### BIRTHWEIGHT

The weight of an infant recorded at the time of delivery. It may be recorded in either pounds/ounces or grams. If recorded in pounds/ounces, it is converted to grams for use in this report.

1 pound = 453.6 grams
1,000 grams = 2 pounds, 3 ounces

### BIRTHWEIGHT CATEGORIES

|  |  |
|---|---|
| Normal birthweight (NBW) | An infant's weight of 2,500 grams (5.5 pounds) or more recorded at birth. |
| Low birthweight (LBW) | An infant's weight of less than 2,500 grams (5.5 pounds) recorded at birth. |
| Very low birthweight (VLBW) | An infant's weight of less than 1,500 grams (3.3 pounds) recorded at birth. |

## CAESAREAN SECTION or C-SECTION

Primary: A mother's first Caesarean section delivery.
Repeat: A Caesarean delivery that has been preceded by at least one Caesarean delivery.

## ETHNICITY

See Race.

## FOREIGN-BORN WOMEN

Women not born in the United States, its possessions or protectorates. Women born in Puerto Rico, the US Virgin Islands, and Guam are not foreign-born.

## GRAVIDITY

The number of pregnancies experienced by a woman.

## HEALTHY START

A Massachusetts-funded program providing services and financing for prenatal care to low-income pregnant women who lack health insurance, but do not qualify for Medicaid.

## INFANT

A child whose age is less than one year (365 days).

## LIVE BIRTH

A live birth is any infant who breathes or shows any other evidence of life (such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles) after separation from the mother's uterus, regardless of the duration of gestation.

## LOW BIRTHWEIGHT (LBW)

See Birthweight Categories.

## NEONATE

A child under 28 days of age.

## NORMAL BIRTHWEIGHT (NBW)

See Birthweight Categories.

## OCCURRENCE BIRTH

A birth occurring in the Commonwealth of Massachusetts, regardless of the residency of the mother. In Massachusetts, the place will be one of the 351 cities or towns. See Resident Birth.

## PARITY

Total number of live births, including the present birth, ever born to the mother.

## PLURALITY

The number of births to a woman produced in the same gestational period. A singleton is the birth of one infant, twins represent the births of two infants, etc.

## POST NEONATE

A child whose age is at least 28 days, but less than one year.

## PRIMARY CAESAREAN SECTION or C-SECTION

See Caesarean Section.

## RACE

Assignment of an Infant's Race/Ethnicity: Prior to 1989, the race/ethnicity of an infant was assigned by combining information on the race/ethnicity of the mother and the race/ethnicity of the father. Since 1989, Massachusetts has followed the National Center for Health Statistics' recommendation of classifying births according to the self-reported race/ethnicity of the mother. Therefore, beginning in 1989, the race/ethnicity of an infant is identical to the self-reported race/ethnicity of the infant's mother.

Race of mother: For data presented in this publication, mother's race is as reported by the infant's mother.

Hispanic Ethnicity: Beginning in 1986, an identifier for Hispanic ethnicity was added to the birth certificate. Prior to this change, most Hispanics were included with whites and it was not possible to accurately calculate Hispanic-specific rates of natality.

## REPEAT CAESAREAN SECTION or C-SECTION

See Caesarean Section.

## RESIDENT BIRTH

The birth of an infant whose mother reports that her usual place of residence is in Massachusetts. In Massachusetts, a resident is a person with a permanent address in one of the 351 cities or towns. Vital statistics data may be presented in terms either of residence or occurrence. Unless otherwise noted, all data in this publication are resident data. Resident data include all events that occur to residents of the Commonwealth, wherever they occur. Occurrence data include all events that occur within the state, whether to residents or non-residents. There is an exchange agreement among the 50 states, Canada, Puerto Rico, Guam, the Virgin Islands, and the District of Columbia that provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of its residents.

## VAGINAL BIRTH AFTER CAESAREAN (VBAC)

A vaginal delivery of an infant to a mother who had had at least one prior Caesarean section delivery.

## VERY LOW BIRTHWEIGHT (VLBW)

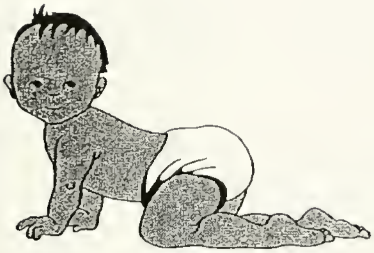
See Birthweight Categories.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

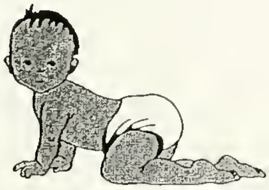
| | |
|---|---|
| AGE-SPECIFIC BIRTH RATE | $\frac{\text{No. of Resident Live Births for a Specific Age Group of Mothers}}{\text{Total Female Population of That Specific Age Group}} \times 1{,}000$ |
| CRUDE BIRTH RATE | $\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1{,}000$ |
| GENERAL FERTILITY RATE | $\frac{\text{No. of Resident Live Births}}{\text{Total Female Population of Childbearing Age (15-44)}} \times 1{,}000$ |
| CAESAREAN SECTION or C-SECTION RATE | $\frac{\text{No. of Resident Births Delivered by C-Section}}{\text{Total Number of Resident Births}} \times 100$ |

**Figure B-1. Daily Birth Statistics, Massachusetts: 1997**

Everyday in 1997, residents of Massachusetts experienced an average of:

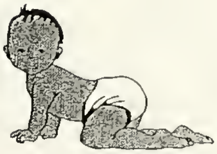


220 Births



44 Births by Caesarean Section

42 Births to women aged 35 or older



44 Births with less than adequate prenatal care

16 Births to women aged 15 through 19

15 Births weighing less than 2500 grams or 5 lbs. 8 oz. (low birthweight)

## Table B-1. Trends in Birth Characteristics, Massachusetts: 1980, 1985, 1990-1997

| Characteristic | | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Births[1] | #[2] | 72,591 | 81,781 | 92,461 | 88,176 | 87,202 | 84,627 | 83,758 | 81,562 | 80,164 | 80,321 |
| | Rate[3] | 53.4 | 57.5 | 62.1 | 59.6 | 59.2 | 57.8 | 57.5 | 56.3 | 55.6 | 56.0 |
| Race of Mother | | | | | | | | | | | |
| White[4] | # | 66,220 | 71,854 | 80,775 | 76,983 | 76,052 | 73,704 | 72,980 | 71,083 | 69,485 | 69,503 |
| | % | 91.2 | 87.9 | 87.4 | 87.3 | 87.2 | 87.1 | 87.1 | 87.2 | 86.7 | 86.5 |
| Black | # | 4,626 | 5,099 | 7,729 | 7,352 | 7,203 | 6,916 | 6,713 | 6,299 | 5,946 | 6,182 |
| | % | 6.4 | 6.2 | 8.3 | 8.3 | 8.3 | 8.2 | 8.0 | 7.7 | 7.4 | 7.7 |
| Asian/Other[5] | # | 1,069 | 1,741 | 3,688 | 3,566 | 3,582 | 3,664 | 3,790 | 3,817 | 3,950 | 4,217 |
| | % | 1.5 | 2.1 | 4.0 | 4.0 | 4.1 | 4.3 | 4.5 | 4.7 | 4.9 | 5.3 |
| Unknown | # | 676 | 3,087 | 269 | 275 | 365 | 343 | 275 | 363 | 783 | 419 |
| | % | 0.9 | 3.8 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 1.0 | 0.5 |
| Teen Births (Ages 15-19) | # | 7,694 | 6,859 | 7,258 | 6,892 | 6,555 | 6,469 | 6,412 | 5,990 | 5,758 | 5,801 |
| | Rate[6] | 28.1 | 28.7 | 35.4 | 34.2 | 33.3 | 33.7 | 34.3 | 33.0 | 32.6 | 33.8 |
| Births to Unmarried Mothers | # | 11,356 | 15,044 | 22,837 | 22,852 | 22,612 | 22,345 | 22,302 | 20,857 | 20,253 | 20,640 |
| | % | 15.6 | 18.4 | 24.7 | 25.9 | 25.9 | 26.4 | 26.6 | 25.6 | 25.3 | 25.7 |
| Low Birthweight | # | 4,413 | 4,751 | 5,388 | 5,199 | 5,137 | 5,202 | 5,335 | 5,174 | 5,105 | 5,617 |
| | % | 6.1 | 5.8 | 5.8 | 5.9 | 5.9 | 6.1 | 6.4 | 6.3 | 6.4 | 7.0 |
| Adequate Prenatal Care | %[7] | 82.0 | 79.4 | 80.1 | 81.6 | 82.9 | 83.8 | 84.3 | 84.2 | 80.2 | 80.1 |
| | % | 79.6 | 78.6 | 78.8 | 81.2 | 82.7 | 83.6 | 84.1 | 83.6 | 78.0 | 78.6 |

[1] Births presented in all tables are resident live births unless otherwise specified.

[2] Differences in numbers of births from previous publications are the result of updated files.

[3] Rates represent the total number of births to women 15-44 per 1,000 women ages 15-44.

[4] On tables and graphs which include data prior to June 1986, the race classifications do not include an ethnicity component; most Hispanics are included in the race category of white.

[5] Other races include American Indian, Hawaiian, and others not specified.

[6] Rate per 1,000 females ages 15-19.

[7] Percentages in upper row are based on births with known scores of adequacy of prenatal care; bottom row percentages are based on total numbers of births. In subsequent tables and figures, percentage with adequate prenatal care is computed only on births with known adequacy scores.

## Table B-2. Birth Characteristics by Race and Ethnicity, Massachusetts: 1997

| Race and Ethnicity | Births[1] | | Teen Births <18 Years | | Teen Births <20 Years | | Birthweight Very Low[2] | | Birthweight Low[3] | | Prenatal Care Adequate | | Prenatal Care 1st Trimester | | Caesarean Section | | Breast Feeding[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| **State Total** | 80,321 | 100.0 | 2,208 | 2.7 | 5,904 | 7.4 | 1,098 | 1.4 | 5,617 | 7.0 | 63,134 | 80.1 | 67,035 | 84.4 | 15,853 | 19.8 | 53,231 | 67.9 |
| **White Non-Hispanic** | 61,143 | 76.1 | 893 | 1.5 | 2865 | 4.7 | 734 | 1.2 | 3,915 | 6.4 | 50,615 | 84.1 | 53,423 | 88.1 | 12,348 | 20.2 | 40,805 | 68.4 |
| **Black non-Hispanic** | 5,457 | 6.8 | 330 | 6.0 | 794 | 14.6 | 165 | 3.0 | 617 | 11.3 | 3,504 | 66.4 | 3,870 | 72.5 | 1,145 | 21.0 | 3,281 | 61.9 |
| Haitian | 865 | 1.1 | 14 | 1.6 | 48 | 5.5 | 28 | 3.2 | 96 | 11.1 | 565 | 67.1 | 621 | 73.2 | 202 | 23.4 | 630 | 74.8 |
| Other West Indian | 506 | 0.6 | 14 | 2.8 | 40 | 7.9 | 13 | 2.6 | 51 | 10.1 | 360 | 73.5 | 385 | 77.9 | 119 | 23.6 | 401 | 80.8 |
| American | 3,286 | 4.1 | 278 | 8.5 | 646 | 19.7 | 97 | 3.0 | 388 | 11.8 | 2,077 | 65.5 | 2,312 | 72.0 | 635 | 19.4 | 1,670 | 52.1 |
| Other Black | 800 | 1.0 | 24 | 3.0 | 60 | 7.5 | 27 | 3.4 | 82 | 10.3 | 502 | 64.8 | 552 | 70.1 | 189 | 23.7 | 580 | 76.3 |
| **Hispanic** | 8,211 | 10.2 | 796 | 9.7 | 1807 | 22.0 | 137 | 1.7 | 680 | 8.3 | 5,343 | 66.3 | 5,766 | 71.1 | 1,456 | 17.8 | 5,532 | 68.2 |
| Puerto Rican | 4,377 | 5.4 | 613 | 14.0 | 1309 | 29.9 | 87 | 2.0 | 399 | 9.1 | 2,722 | 63.2 | 2,965 | 68.6 | 731 | 16.7 | 2,512 | 57.9 |
| Dominican | 1,402 | 1.7 | 86 | 6.1 | 213 | 15.2 | 22 | 1.6 | 118 | 8.4 | 934 | 67.9 | 994 | 71.7 | 298 | 21.3 | 1,089 | 79.1 |
| Central American | 1,115 | 1.4 | 47 | 4.2 | 141 | 12.6 | 9 | 0.8 | 80 | 7.2 | 728 | 67.1 | 782 | 71.4 | 171 | 15.4 | 897 | 81.9 |
| South American | 624 | 0.8 | 11 | 1.8 | 31 | 5.0 | 3 | --[5] | 29 | 4.6 | 463 | 75.5 | 489 | 79.0 | 145 | 23.2 | 527 | 85.3 |
| Other Hispanic | 693 | 0.9 | 39 | 5.6 | 113 | 16.3 | 16 | 2.3 | 54 | 7.8 | 496 | 73.3 | 536 | 78.8 | 111 | 16.0 | 507 | 74.3 |
| **Asian[6]** | 3,876 | 4.8 | 106 | 2.7 | 214 | 5.5 | 29 | 0.7 | 264 | 6.8 | 2,753 | 72.2 | 2,938 | 76.7 | 590 | 15.3 | 2,627 | 68.4 |
| Chinese | 1,134 | 1.4 | 5 | 0.4 | 13 | 1.1 | 5 | 0.4 | 54 | 4.8 | 912 | 81.4 | 955 | 84.8 | 181 | 16.0 | 816 | 72.7 |
| Vietnamese | 640 | 0.8 | 16 | 2.5 | 50 | 7.8 | 5 | 0.8 | 41 | 6.4 | 409 | 65.7 | 446 | 71.4 | 91 | 14.2 | 283 | 44.7 |
| Cambodian | 489 | 0.6 | 57 | 11.7 | 94 | 19.2 | 4 | --[5] | 45 | 9.2 | 208 | 43.4 | 242 | 50.1 | 38 | 7.8 | 179 | 36.6 |
| Other S.E. Asian | 136 | 0.2 | 13 | 9.6 | 22 | 16.2 | 0 | 0.0 | 8 | 5.9 | 70 | 51.9 | 79 | 58.5 | 15 | 11.0 | 67 | 49.6 |
| Other Asian | 1,477 | 1.8 | 15 | 1.0 | 35 | 2.4 | 15 | 1.0 | 116 | 7.9 | 1,154 | 79.1 | 1,216 | 83.1 | 265 | 18.0 | 1,282 | 87.9 |
| **Other[7]** | 1,427 | 1.8 | 76 | 5.3 | 205 | 14.4 | 26 | 1.8 | 124 | 8.7 | 865 | 62.5 | 973 | 69.4 | 290 | 20.4 | 939 | 67.9 |
| **Unknown[8]** | 207 | 0.3 | 7 | 3.4 | 19 | 9.2 | 7 | 3.4 | 17 | 8.2 | 54 | 65.9 | 65 | 73.9 | 24 | 15.2 | 47 | 66.2 |

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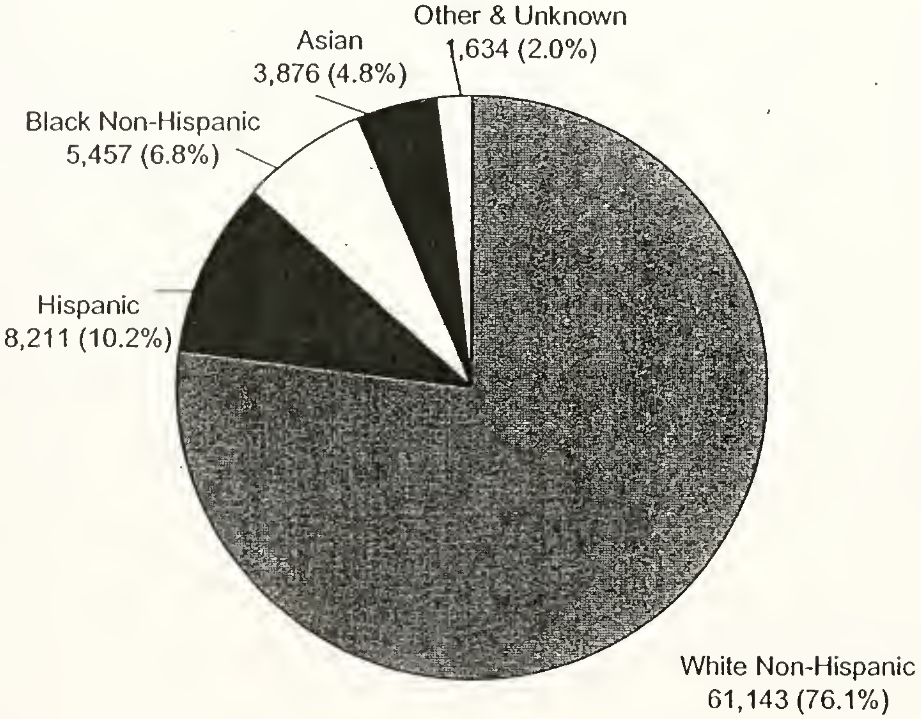
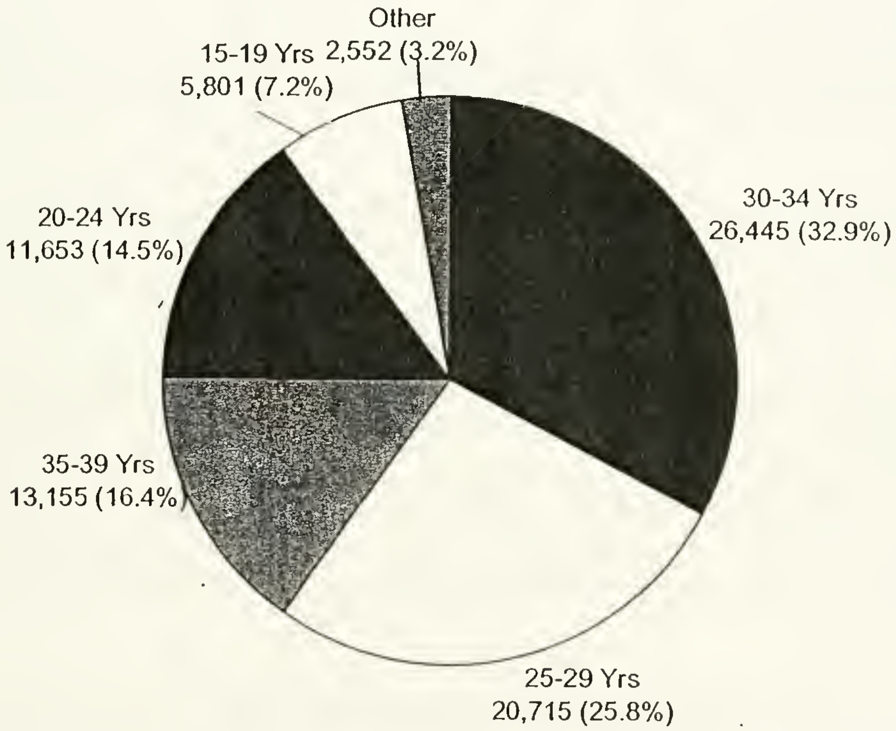
[1] In the first category, "Births", percentages are based on column totals. For all other categories, percentages are based on row totals. For Prenatal Care, Caesarean Section, and Breastfeeding variables, percentages are calculated only for cases where information is known. [2] Very low birthweight: < 1,500 grams or 3.3 pounds. [3] Low birthweight: < 2,500 grams or 5.5 pounds. [4] Mother was breastfeeding or was intending to breastfeed at the time the birth certificate was completed. [5] Calculations based on fewer than five events are excluded. [6] Asians include Asians and Pacific Islanders. (This applies throughout the document). [7] Other: Mothers who designated themselves as American Indian or 'Other' race. (This applies throughout the document). [8] Unknown: Mothers who did not indicate a race/ethnicity.

Figure B-2. Resident Live Births by Mother's Race/Ethnicity: 1997



Total number of births = 80,321. Note: Percents do not sum to 100.0 due to rounding.

Figure B-3. Resident Live Births by Mother's Age: 1997



Total number of births = 80,321

## Table B-3A. Resident Birth Characteristics: 30 Largest Municipalities, Massachusetts: 1997[1]

| Municipality | Rank | Population | Crude Birth rate[2] | Mother's Race and Ethnicity: White Non-Hispanic % | Mother's Race and Ethnicity: Black Non-Hispanic % | Mother's Race and Ethnicity: Hispanic % | Mother's Race and Ethnicity: Asian or Other[3] % | Very Low Birthweight[4] (<1500 gms). % | Low Birthweight[4] (<2500 gms). % |
|---|---|---|---|---|---|---|---|---|---|
| STATE TOTAL | | 6,187,181 | 13.0 | 76.1 | 6.8 | 10.2 | 6.6 | 1.4 | 7.0 |
| ARLINGTON | 28 | 41,978 | 14.5 | 86.2 | 2.3 | 2.3 | 9.2 | --[5] | 5.9 |
| BARNSTABLE | 26 | 44,666 | 10.8 | 87.4 | 3.5 | 2.9 | 6.2 | 1.4 | 5.8 |
| BOSTON | 1 | 585,774 | 13.4 | 33.7 | 32.0 | 21.2 | 12.4 | 2.0 | 9.2 |
| BROCKTON | 8 | 90,740 | 15.7 | 49.1 | 23.3 | 10.9 | 16.4 | 2.2 | 9.5 |
| BROOKLINE | 16 | 61,362 | 9.8 | 78.0 | 2.8 | 4.2 | 14.7 | 1.2 | 7.3 |
| CAMBRIDGE | 5 | 101,360 | 10.0 | 58.6 | 16.6 | 8.1 | 16.7 | 2.4 | 7.9 |
| CHICOPEE | 19 | 56,824 | 9.7 | 79.9 | 3.1 | 15.2 | 1.8 | 1.4 | 6.9 |
| FALL RIVER | 7 | 92,503 | 12.0 | 91.0 | 2.5 | 3.0 | 3.4 | 1.6 | 7.9 |
| FRAMINGHAM | 14 | 64,407 | 14.8 | 66.0 | 4.5 | 15.4 | 14.1 | 2.3 | 9.8 |
| HAVERHILL | 18 | 57,561 | 14.9 | 86.8 | 1.3 | 10.1 | 1.7 | 1.5 | 7.4 |
| HOLYOKE | 30 | 41,636 | 17.0 | 35.6 | 3.2 | 59.6 | 1.6 | 1.0 | 8.1 |
| LAWRENCE | 13 | 69,514 | 18.9 | 24.4 | 1.8 | 69.2 | 4.3 | 2.2 | 8.3 |
| LEOMINSTER | 27 | 43,242 | 13.3 | 76.1 | 3.5 | 13.4 | 6.8 | 1.4 | 8.0 |
| LOWELL | 4 | 109,168 | 15.5 | 52.1 | 3.6 | 19.6 | 24.7 | 1.1 | 7.8 |
| LYNN | 11 | 82,207 | 16.5 | 48.0 | 12.8 | 28.3 | 10.3 | 2.0 | 8.4 |
| MALDEN | 20 | 54,388 | 14.4 | 60.2 | 12.0 | 6.5 | 21.2 | 1.4 | 5.4 |
| MEDFORD | 17 | 57,932 | 10.9 | 80.5 | 10.6 | 3.5 | 5.2 | 1.0 | 6.2 |
| NEW BEDFORD | 6 | 98,754 | 12.4 | 71.8 | 8.2 | 12.7 | 6.6 | 1.0 | 6.8 |
| NEWTON | 10 | 82,938 | 10.0 | 83.5 | 1.1 | 1.8 | 12.7 | 0.8 | 4.6 |
| PEABODY | 24 | 47,504 | 12.0 | 88.9 | 1.1 | 7.7 | 2.1 | --[5] | 5.5 |
| PITTSFIELD | 25 | 45,871 | 11.7 | 89.0 | 6.2 | 2.6 | 2.2 | 1.5 | 8.8 |
| PLYMOUTH | 23 | 50,204 | 13.5 | 94.7 | 1.0 | 1.3 | 2.5 | 0.9 | 6.2 |
| QUINCY | 9 | 83,887 | 12.8 | 74.7 | 2.7 | 2.8 | 19.7 | 2.0 | 6.4 |
| SALEM | 29 | 41,944 | 11.3 | 75.4 | 2.7 | 18.7 | 3.2 | 1.3 | 8.4 |
| SOMERVILLE | 12 | 80,697 | 11.5 | 60.2 | 11.7 | 16.4 | 11.1 | 0.9 | 6.3 |
| SPRINGFIELD | 3 | 155,296 | 15.0 | 36.1 | 22.9 | 36.4 | 4.6 | 2.6 | 9.7 |
| TAUNTON | 22 | 53,230 | 14.5 | 91.3 | 2.3 | 4.4 | 1.9 | --[5] | 5.5 |
| WALTHAM | 15 | 61,655 | 10.8 | 65.9 | 5.7 | 15.9 | 12.5 | --[5] | 5.0 |
| WEYMOUTH | 21 | 53,584 | 14.2 | 93.2 | 2.0 | 2.1 | 2.6 | 1.6 | 8.4 |
| WORCESTER | 2 | 171,813 | 13.6 | 59.5 | 8.4 | 24.0 | 7.8 | 1.6 | 8.8 |

## Table B-3A. (cont'd) Resident Birth Characteristics: 30 Largest Municipalities, Massachusetts: 1997

|  | Births |  |  |  |  | Deaths[6] |  |
|---|---|---|---|---|---|---|---|
| Municipality | Adequate Prenatal Care[4] % | Public Payment for Prenatal Care % | Unmarried[4] % | Teen Mothers 15 to 19 years # | Teen Mothers 15 to 19 years Rate[7] | Infant <1 year Rate | Neonatal < 28 days Rate |
| STATE TOTAL | 80.1 | 24.4 | 25.7 | 5,801 | 33.8 | 5.3 | 4.0 |
| ARLINGTON | 88.2 | 5.4 | 6.1 | 6 | 8.2 | --[5] | --[5] |
| BARNSTABLE | 78.3 | 28.3 | 30.8 | 38 | 39.7 | 12.4 | --[5] |
| BOSTON | 75.2 | 46.5 | 45.4 | 825 | 47.4 | 8.4 | 6.1 |
| BROCKTON | 66.0 | 45.1 | 48.9 | 196 | 71.7 | 4.9 | 3.5 |
| BROOKLINE | 89.0 | 6.2 | 5.7 | 6 | 4.9 | --[5] | --[5] |
| CAMBRIDGE | 83.8 | 17.1 | 20.7 | 54 | 17.6 | --[5] | --[5] |
| CHICOPEE | 72.5 | 41.8 | 38.9 | 63 | 37.4 | --[5] | --[5] |
| FALL RIVER | 74.5 | 44.8 | 43.9 | 141 | 53.5 | 5.4 | --[5] |
| FRAMINGHAM | 85.5 | 18.8 | 20.0 | 61 | 37.6 | --[5] | --[5] |
| HAVERHILL | 77.8 | 29.8 | 31.5 | 87 | 61.1 | 8.2 | 7.0 |
| HOLYOKE | 70.3 | 68.1 | 61.0 | 180 | 94.9 | 7.1 | --[5] |
| LAWRENCE | 58.3 | 62.4 | 62.0 | 277 | 81.1 | 14.5 | 12.2 |
| LEOMINSTER | 75.7 | 24.9 | 27.2 | 43 | 41.3 | --[5] | --[5] |
| LOWELL | 62.2 | 47.7 | 49.4 | 276 | 76.2 | 4.7 | 4.1 |
| LYNN | 75.8 | 53.2 | 47.6 | 182 | 73.8 | 12.5 | 8.1 |
| MALDEN | 81.9 | 23.5 | 22.1 | 33 | 30.0 | 6.4 | --[5] |
| MEDFORD | 84.4 | 13.2 | 15.7 | 19 | 12.1 | --[5] | --[5] |
| NEW BEDFORD | 72.8 | 53.3 | 51.8 | 221 | 66.4 | 4.9 | --[5] |
| NEWTON | 89.4 | 2.8 | 5.5 | 6 | 1.9 | 7.2 | 6.0 |
| PEABODY | 89.6 | 13.7 | 14.8 | 12 | 12.5 | --[5] | --[5] |
| PITTSFIELD | 74.0 | 34.4 | 35.5 | 58 | 68.0 | --[5] | --[5] |
| PLYMOUTH | 85.5 | 19.4 | 20.7 | 38 | 26.2 | --[5] | --[5] |
| QUINCY | 85.1 | 21.1 | 20.1 | 38 | 28.9 | 7.4 | 5.6 |
| SALEM | 86.5 | 32.6 | 33.9 | 35 | 33.9 | --[5] | --[5] |
| SOMERVILLE | 78.9 | 37.5 | 29.4 | 58 | 33.1 | --[5] | --[5] |
| SPRINGFIELD | 64.2 | 60.4 | 59.4 | 476 | 82.3 | 9.9 | 9.5 |
| TAUNTON | 81.9 | 26.6 | 31.3 | 70 | 51.0 | --[5] | --[5] |
| WALTHAM | 84.2 | 17.7 | 18.8 | 30 | 14.8 | --[5] | --[5] |
| WEYMOUTH | 90.7 | 13.2 | 16.9 | 31 | 32.7 | --[5] | --[5] |
| WORCESTER | 65.7 | 40.8 | 42.5 | 313 | 52.4 | 8.2 | 5.6 |

[1] The 30 largest municipalities are the cities and towns in Massachusetts with the largest populations according to 1997 population estimates. [2] Births per 1,000 residents. [3] Mothers who designated themselves as Asian, American Indian or Other. [4] Percentages are calculated only for cases where information is known. [5] Calculations based on fewer than five events are excluded. [6] Deaths per 1,000 live births. [7] Births per 1,000 female residents ages 15 to 19.

## Table B-3B. Resident Birth Characteristics: Community Health Network Areas (CHNAs), Massachusetts: 1997

| | | | Mother's Race and Ethnicity | | | | | |
|---|---|---|---|---|---|---|---|---|
| CHNA | Population | Crude Birth Rate[1] | White non-Hispanic | Black non-Hispanic | Hispanic | Asian or Other[2] | Very Low Birthweight[3] (<1500 gms) | Low Birthweight[3] (<2500 gms) |
| | | Rate | % | % | % | % | % | % |
| STATE TOTAL | 6,187,181 | 13.0 | 76.1 | 6.8 | 10.2 | 6.6 | 1.4 | 7.0 |
| Community Health Network of Berkshire | 134,153 | 10.1 | 92.6 | 3.0 | 2.1 | 2.1 | 1.6 | 8.4 |
| Upper Valley Health Web (Franklin County) | 88,466 | 10.3 | 95.2 | --[4] | 1.6 | 2.4 | --[4] | 5.1 |
| Partnership for Health in Hampshire County (Northampton) | 153,823 | 8.6 | 88.3 | 2.0 | 5.4 | 4.1 | 0.8 | 6.6 |
| The Community Health Connection (Springfield) | 292,524 | 13.0 | 58.0 | 14.5 | 23.9 | 3.6 | 2.1 | 8.7 |
| Greater Southbridge Community Health Network | 114,465 | 12.0 | 91.1 | --[4] | 7.1 | 1.4 | 0.8 | 6.6 |
| Community Partners for Health (Milford) | 146,125 | 15.9 | 94.9 | 0.7 | 1.9 | 2.4 | 1.2 | 5.9 |
| Community Health Network of Greater Metro West (Framingham) | 348,246 | 15.4 | 87.2 | 1.5 | 4.9 | 6.2 | 1.3 | 6.8 |
| Community Wellness Coalition (Worcester) | 281,455 | 13.2 | 72.2 | 5.5 | 15.6 | 6.5 | 1.5 | 8.1 |
| Fitchburg/Gardner Community Health Network | 259,873 | 12.0 | 86.2 | 2.0 | 7.7 | 3.8 | 1.3 | 6.9 |
| Greater Lowell Community Health Network | 267,448 | 15.3 | 76.5 | 1.9 | 8.8 | 12.6 | 0.9 | 7.0 |
| Greater Lawrence Community Health Network | 167,582 | 15.7 | 55.6 | 1.4 | 38.3 | 4.5 | 1.2 | 6.6 |
| Greater Haverhill Community Health Network | 137,760 | 14.2 | 92.5 | 0.9 | 5.1 | 1.5 | 1.2 | 6.5 |
| Greater Beverly/Gloucester Community Health Network | 111,242 | 12.4 | 94.9 | 1.1 | 1.7 | 1.8 | 1.2 | 6.6 |
| North Shore Community Health Network | 266,973 | 13.0 | 73.7 | 5.7 | 15.2 | 5.2 | 1.4 | 7.0 |
| Greater Woburn/Concord/Littleton Community Health Network | 195,316 | 13.6 | 87.9 | 1.2 | 2.1 | 8.5 | 1.2 | 5.8 |
| North Suburban Health Alliance (Medford/Malden/Melrose) | 253,424 | 13.7 | 80.1 | 6.5 | 4.7 | 8.5 | 1.5 | 5.7 |
| Greater Cambridge/Somerville Community Health Network | 282,079 | 11.4 | 70.4 | 9.3 | 8.3 | 11.9 | 1.3 | 7.0 |
| West Suburban Health Network (Newton/Waltham) | 250,696 | 11.6 | 84.4 | 2.1 | 4.8 | 8.4 | 1.0 | 5.3 |
| Alliance for Community Health (Boston/Chelsea/Revere/Winthrop) | 731,665 | 13.4 | 38.8 | 26.6 | 21.9 | 12.0 | 1.9 | 8.9 |
| Blue Hills Community Health Alliance (Quincy) | 348,282 | 13.3 | 84.5 | 4.7 | 1.9 | 8.6 | 1.4 | 6.5 |
| Four (For) Communities (Holyoke) | 159,586 | 11.9 | 67.5 | 2.5 | 28.3 | 1.6 | 0.9 | 6.5 |
| Greater Brockton Community Health Network | 228,595 | 13.4 | 72.4 | 12.4 | 5.7 | 9.1 | 1.7 | 8.3 |
| South Shore Community Partners in Prevention (Plymouth) | 174,111 | 14.4 | 96.6 | 0.6 | 1.0 | 1.6 | 1.2 | 5.9 |
| Health & Education Response (Attleboro/Taunton) | 230,666 | 14.3 | 93.6 | 1.3 | 2.5 | 2.5 | 1.2 | 5.9 |
| Partners for a Healthier Community (Fall River) | 139,165 | 10.8 | 93.0 | 1.9 | 2.2 | 2.7 | 1.5 | 8.0 |
| Greater New Bedford Community Health Network | 198,615 | 10.9 | 81.4 | 5.0 | 7.5 | 5.6 | 0.9 | 6.1 |
| Cape and Islands Community Health Network | 224,849 | 10.4 | 91.1 | 2.3 | 2.1 | 4.2 | 1.2 | 5.7 |

## Table B-3B. (cont'd) Resident Birth Characteristics: Community Health Network Areas, Massachusetts: 1997

| CHNA | Births | | | | | Deaths[5] | |
|---|---|---|---|---|---|---|---|
| | Adequate Prenatal Care[3] | Public Payment for Prenatal Care | Unmarried[3] | Teen Mothers 15-19 years | | Infant <1 year | Neonatal <28 days |
| | % | % | % | # | Rate[6] | Rate | Rate |
| STATE TOTAL | 80.1 | 24.4 | 25.7 | 5,801 | 33.8 | 5.3 | 4.0 |
| Community Health Network of Berkshire | 77.8 | 30.9 | 31.2 | 120 | 29.4 | 6.7 | 4.4 |
| Upper Valley Health Web (Franklin County) | 74.6 | 30.5 | 30.2 | 82 | 31.2 | 5.5 | --[4] |
| Partnership for Health in Hampshire County (Northampton) | 82.7 | 17.7 | 22.1 | 91 | 11.4 | --[4] | --[4] |
| The Community Health Connection (Springfield) | 71.0 | 44.2 | 43.8 | 556 | 58.5 | 7.6 | 6.8 |
| Greater Southbridge Community Health Network | 74.8 | 21.6 | 29.1 | 146 | 42.8 | --[4] | --[4] |
| Community Partners for Health (Milford) | 85.7 | 8.6 | 11.3 | 73 | 18.7 | 2.6 | --[4] |
| Community Health Network of Greater Metro West (Framingham) | 87.3 | 8.1 | 10.7 | 158 | 22.4 | 5.6 | 4.5 |
| Community Wellness Coalition (Worcester) | 68.3 | 28.4 | 31.3 | 355 | 40.7 | 7.3 | 5.4 |
| Fitchburg/Gardner Community Health Network | 75.6 | 21.2 | 24.0 | 267 | 33.2 | 2.9 | 2.2 |
| Greater Lowell Community Health Network | 74.5 | 24.2 | 26.4 | 327 | 45.1 | 3.9 | 3.2 |
| Greater Lawrence Community Health Network | 71.1 | 36.4 | 37.7 | 333 | 58.6 | 9.1 | 7.2 |
| Greater Haverhill Community Health Network | 80.9 | 18.9 | 21.5 | 130 | 39.5 | 5.1 | 4.6 |
| Greater Beverly/Gloucester Community Health Network | 90.0 | 13.1 | 15.7 | 68 | 20.6 | 3.6 | --[4] |
| North Shore Community Health Network | 84.0 | 29.2 | 27.5 | 242 | 37.6 | 8.3 | 5.5 |
| Greater Woburn/Concord/Littleton Community Health Network | 85.9 | 6.9 | 7.5 | 40 | 9.5 | 2.6 | 1.9 |
| North Suburban Health Alliance (Medford/Malden/Melrose) | 84.3 | 14.6 | 16.2 | 96 | 17.7 | 5.5 | 4.9 |
| Greater Cambridge/Somerville Community Health Network | 84.5 | 18.6 | 17.7 | 120 | 18.7 | 2.5 | 1.9 |
| West Suburban Health Network (Newton/Waltham) | 89.4 | 6.4 | 8.1 | 55 | 7.1 | 4.5 | 4.1 |
| Alliance for Community Health (Boston/Chelsea/Revere/Winthrop) | 75.9 | 43.2 | 42.4 | 977 | 48.1 | 7.3 | 5.3 |
| Blue Hills Community Health Alliance (Quincy) | 88.9 | 12.6 | 14.0 | 132 | 19.1 | 4.8 | 3.7 |
| Four (For) Communities (Holyoke) | 73.2 | 46.5 | 42.8 | 298 | 54.5 | 5.8 | 3.7 |
| Greater Brockton Community Health Network | 76.4 | 27.2 | 31.0 | 267 | 39.6 | 4.3 | 3.3 |
| South Shore Community Partners in Prevention (Plymouth) | 89.4 | 12.6 | 14.8 | 103 | 21.6 | 6.4 | 5.6 |
| Health & Education Response (Attleboro/Taunton) | 83.6 | 16.4 | 20.3 | 171 | 25.7 | 3.9 | 2.7 |
| Partners for a Healthier Community (Fall River) | 78.6 | 35.9 | 37.0 | 166 | 40.6 | 7.3 | 4.6 |
| Greater New Bedford Community Health Network | 78.1 | 38.5 | 40.0 | 285 | 42.1 | 2.8 | --[4] |
| Cape and Islands Community Health Network | 79.6 | 24.9 | 24.1 | 143 | 29.2 | 5.1 | 3.9 |

[1] Births per 1,000 residents.
[2] Mothers who designated themselves as Asian, American Indian or Other.
[3] Percentages are calculated only for cases where information is known.
[4] Calculations based on fewer than five events are excluded.
[5] Deaths per 1,000 live births.
[6] Births per 1,000 female residents ages 15 to 19.

## Table B-4. Age-Specific and Crude Birth Rates, Massachusetts: 1990 and 1997

| Mother's Age | 1990 Births[1] | 1990 Rate | 1997 Births | 1997 Rate | Percent Change in Rate |
|---|---|---|---|---|---|
| 12-14 | 124 | 1.3 | 103 | 0.9 | - 28.1 |
| 15-19 | 7,258 | 35.8 | 5,801 | 33.8 | - 5.5 |
| 20-24 | 18,115 | 70.5 | 11,653 | 58.3 | - 17.3 |
| 25-29 | 29,913 | 107.5 | 20,715 | 80.6 | - 25.0 |
| 30-34 | 25,687 | 92.1 | 26,445 | 95.5 | + 3.6 |
| 35-39 | 9,795 | 40.1 | 13,155 | 47.4 | + 18.3 |
| 40-44 | 1,522 | 6.9 | 2,346 | 9.5 | + 38.2 |
| 45+ | 46 | 0.3[2] | 100 | 0.4[2] | + 55.1 |
| Birth rate, ages 15-44[3] | 92,290 | 62.2 | 80,115 | 56.0 | - 10.0 |
| Crude Birth Rate[4] | 92,461 | 15.4 | 80,321 | 13.0 | - 15.4 |

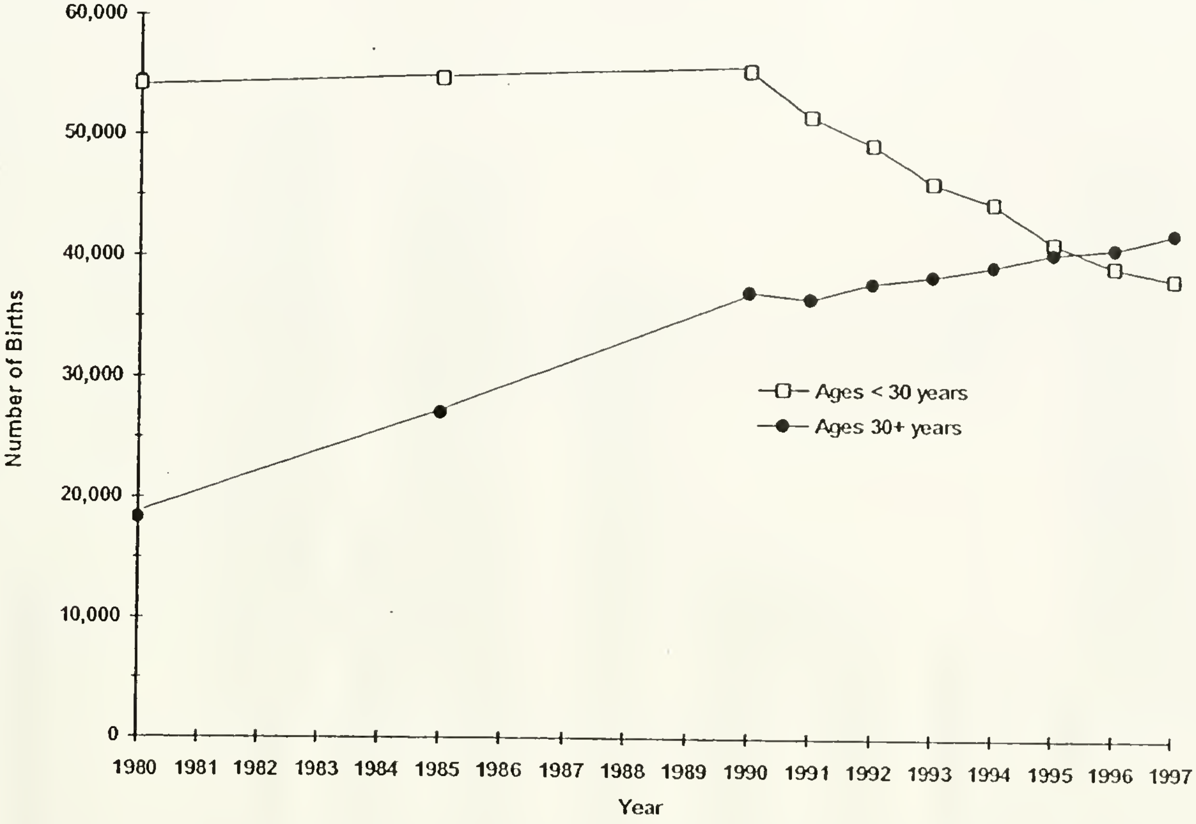
[1] Differences in the number of births from previous publications are the result of updating of files. The number of births for all age groups does not always add to the total number of births as mother's age is sometimes not recorded on the birth certificate.

[2] Denominator is female population ages 45-49.

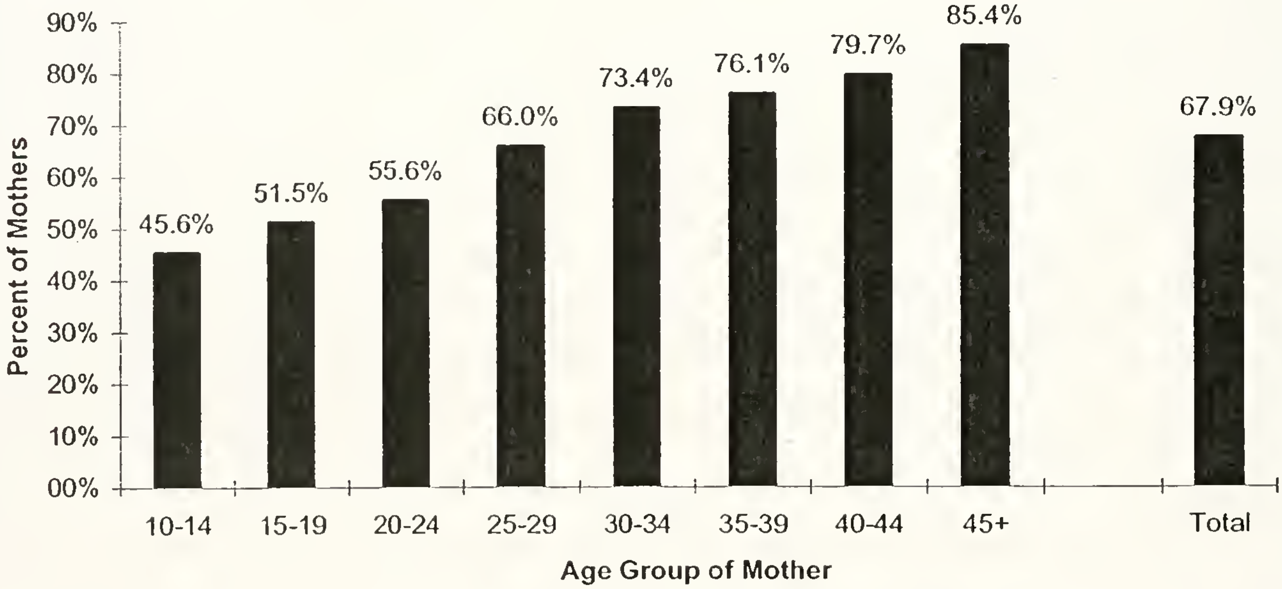
[3] Rate represents the total number of births to mothers ages 15-44 per 1,000 females ages 15 to 44.

[4] Births per 1,000 residents (females and males). Includes births to mothers of all age groups and mothers for whom age is unknown.

Figure B-4. Trends in the Number of Births by Mother's Age Group, Massachusetts: 1980, 1985, 1990-1997



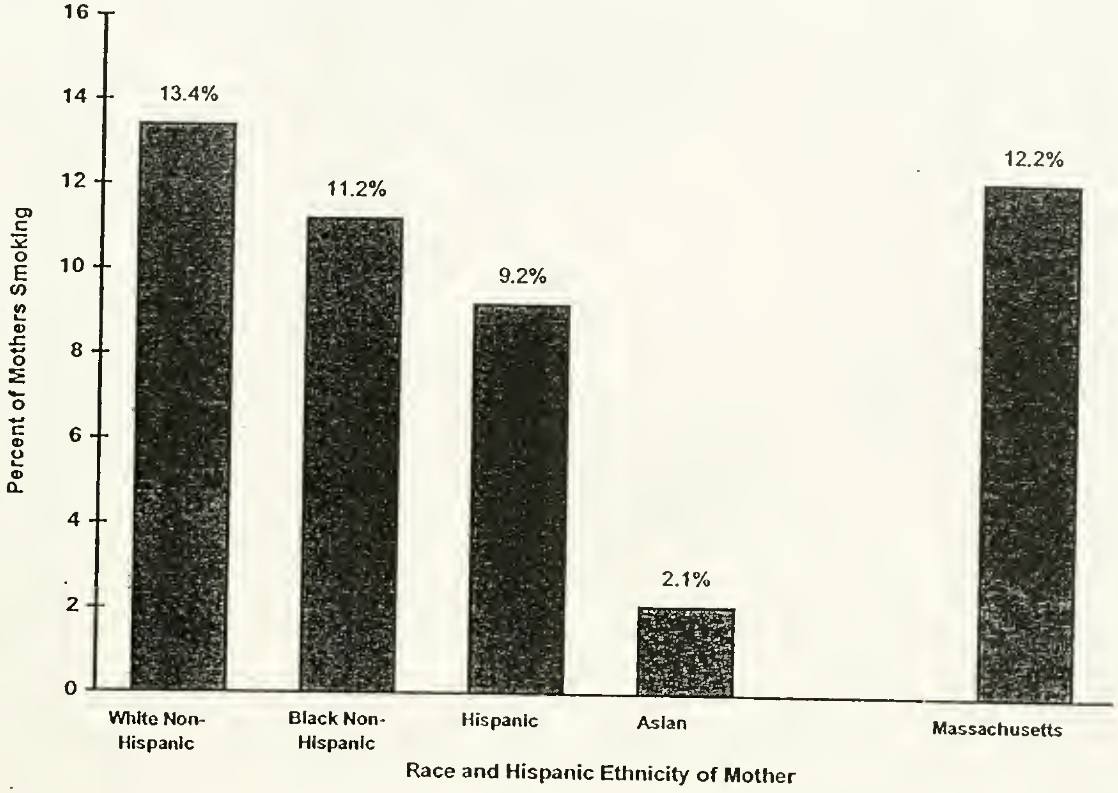
## Figure B-5. Percent of Mothers Breastfeeding or Intending to Breastfeed[1] by Age Group, Massachusetts[2]: 1997



[1] Information about breastfeeding was reported by the mother at the time the birth certificate was completed.

[2] For race-specific breastfeeding rates, see Table B-12.

**Figure B-6. Smoking Prevalence[1] During Pregnancy, by Race and Hispanic Ethnicity of Mother, Massachusetts: 1997**



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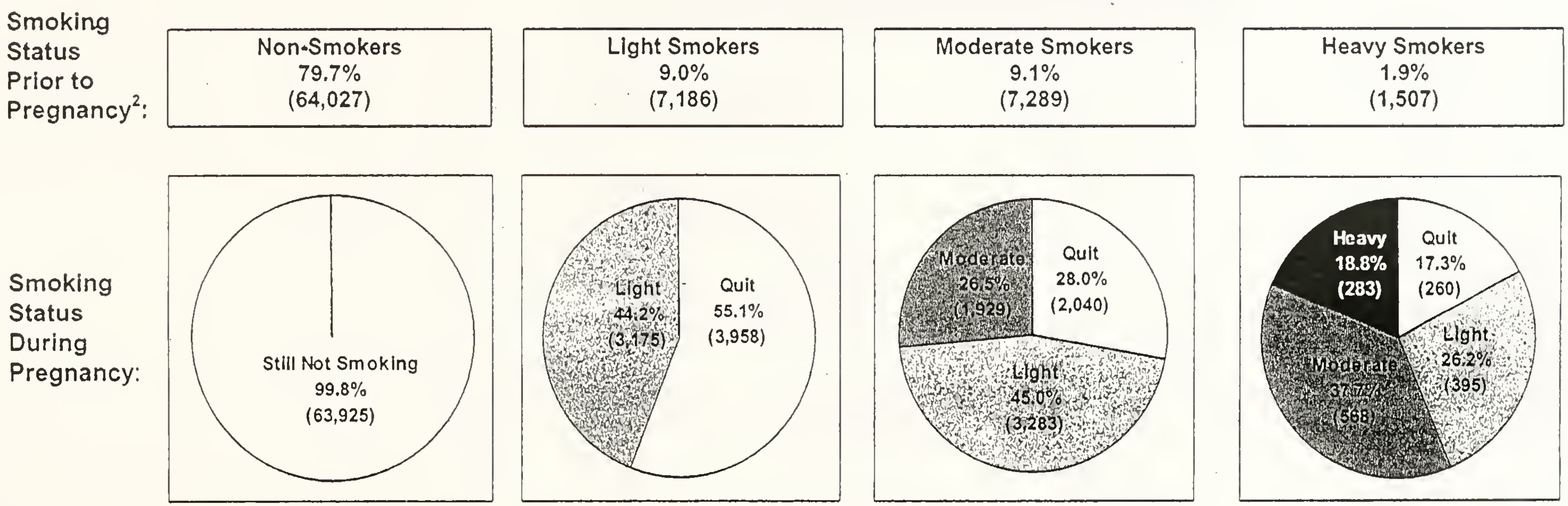
[1] Based on information provided on the birth certificate by mother. Mothers with more than one delivery are counted for each birth.
NOTE: Maternal smoking is self-reported, usually following the birth of their child; these data should be interpreted cautiously.

# Figure B-7. The Distribution of Smoking Status During Pregnancy Among Women Who Were Heavy, Moderate, Light or Non-Smokers[1] Prior to Pregnancy, Massachusetts: 1997



99.8% of Non-Smokers continued not smoking (0.2% started smoking)

55.1% of Light Smokers quit smoking (0.7% increased)

73.0% of Moderate Smokers decreased the number of cigarettes smoked daily or quit (0.5% increased)

81.2% of Heavy Smokers decreased the number of cigarettes smoked daily or quit

---

[1] Light Smokers=1-10 cigarettes daily; Moderate Smokers=11-20 cigarettes daily; Heavy Smokers=21 cigarettes or more daily.

[2] Based on mothers with known smoking status.

NOTE: Not all percentages add up to 100 due to a small number of mothers with unknown smoking status.

## Table B-5. Parity by Age of Mother, Massachusetts: 1997[1]

| Age of Mother (years) | | Total Births | 1st | 2nd | 3rd | 4th | 5th+ |
|---|---|---|---|---|---|---|---|
| STATE TOTAL | #[2] | 80,321 | 35,298 | 27,255 | 11,815 | 3,931 | 2,022 |
| | %[3] | 100.0 | 43.9 | 33.9 | 14.7 | 4.9 | 2.5 |
| 10-14 | # | 103 | 100 | 3 | 0 | 0 | 0 |
| | % | 100.0 | 97.1 | --[4] | 0.0 | 0.0 | 0.0 |
| 15-19 | # | 5,801 | 4,742 | 908 | 132 | 16 | 3 |
| | % | 100.0 | 81.7 | 15.7 | 2.3 | 0.3 | --[4] |
| 20-24 | # | 11,653 | 6,185 | 3,760 | 1,239 | 369 | 100 |
| | % | 100.0 | 53.1 | 32.3 | 10.6 | 3.2 | 0.9 |
| 25-29 | # | 20,715 | 10,044 | 6,836 | 2,579 | 850 | 406 |
| | % | 100.0 | 48.5 | 33.0 | 12.4 | 4.1 | 2.0 |
| 30-34 | # | 26,445 | 9,722 | 10,087 | 4,576 | 1,391 | 669 |
| | % | 100.0 | 36.8 | 38.1 | 17.3 | 5.3 | 2.5 |
| 35-39 | # | 13,155 | 3,798 | 4,827 | 2,807 | 1,082 | 641 |
| | % | 100.0 | 28.9 | 36.7 | 21.3 | 8.2 | 4.9 |
| 40-44 | # | 2,346 | 663 | 810 | 465 | 216 | 192 |
| | % | 100.0 | 28.3 | 34.5 | 19.8 | 9.2 | 8.2 |
| 45+ | # | 100 | 41 | 24 | 17 | 7 | 11 |
| | % | 100.0 | 41.0 | 24.0 | 17.0 | 7.0 | 11.0 |

[1] The number of live births including this birth.

[2] Totals include births of unknown parity and unknown age.

[3] Percents may not sum to 100.0 due to rounding.

[4] Calculations based on fewer than five events are excluded.

## Table B-5A. Number and Percentage Distribution of Births by Plurality and Age, Massachusetts: 1989-1997[1]

| | | Singletons | | Multiples | | | | | | Total births | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Twins | | Triplets or more | | Total Multiples | | | |
| Age Group | Year | # | % | # | % | # | % | # | % | # | % |
| All Ages | | | | | | | | | | | |
| | 1989 | 89,059 | 97.5 | 2,174 | 2.4 | 81 | 0.1 | 2,255 | 2.5 | 91,314 | 100.0 |
| | 1990 | 90,049 | 97.4 | 2,312 | 2.5 | 99 | 0.1 | 2,411 | 2.6 | 92,460 | 100.0 |
| | 1991 | 85,802 | 97.3 | 2,285 | 2.6 | 89 | 0.1 | 2,374 | 2.7 | 88,176 | 100.0 |
| | 1992 | 84,722 | 97.2 | 2,347 | 2.7 | 133 | 0.2 | 2,480 | 2.8 | 87,202 | 100.0 |
| | 1993 | 82,055 | 97.0 | 2,367 | 2.8 | 205 | 0.2 | 2,572 | 3.0 | 84,627 | 100.0 |
| | 1994 | 81,187 | 96.9 | 2,357 | 2.8 | 214 | 0.3 | 2,571 | 3.1 | 83,758 | 100.0 |
| | 1995 | 78,935 | 96.8 | 2,429 | 3.0 | 198 | 0.2 | 2,627 | 3.2 | 81,562 | 100.0 |
| | 1996 | 77,355 | 96.5 | 2,621 | 3.3 | 194 | 0.2 | 2,815 | 3.5 | 80,170 | 100.0 |
| | 1997 | 77,203 | 96.1 | 2,856 | 3.6 | 262 | 0.3 | 3,118 | 3.9 | 80,321 | 100.0 |
| Ages <35 | | | | | | | | | | | |
| | 1989 | 79,012 | 97.6 | 1,835 | 2.3 | 66 | 0.1 | 1,901 | 2.3 | 80,913 | 100.0 |
| | 1990 | 79,081 | 97.5 | 1,946 | 2.4 | 70 | 0.1 | 2,016 | 2.5 | 81,097 | 100.0 |
| | 1991 | 74,810 | 97.5 | 1,863 | 2.4 | 76 | 0.1 | 1,939 | 2.5 | 76,749 | 100.0 |
| | 1192 | 73,043 | 97.3 | 1,914 | 2.6 | 103 | 0.1 | 2,017 | 2.7 | 75,060 | 100.0 |
| | 1993 | 70,042 | 97.2 | 1,849 | 2.6 | 158 | 0.2 | 2,007 | 2.8 | 72,049 | 100.0 |
| | 1994 | 68,644 | 97.2 | 1,844 | 2.6 | 164 | 0.2 | 2,008 | 2.8 | 70,652 | 100.0 |
| | 1995 | 65,669 | 97.2 | 1,787 | 2.6 | 141 | 0.2 | 1,928 | 2.9 | 67,597 | 100.0 |
| | 1996 | 63,560 | 96.9 | 1,935 | 2.9 | 126 | 0.2 | 2,061 | 3.1 | 65,621 | 100.0 |
| | 1997 | 62,598 | 96.7 | 1,949 | 3.0 | 170 | 0.3 | 2,119 | 3.3 | 64,717 | 100.0 |
| Ages 35+ | | | | | | | | | | | |
| | 1989 | 10,043 | 96.6 | 338 | 3.3 | 15 | 0.1 | 353 | 3.4 | 10,396 | 100.0 |
| | 1990 | 10,968 | 96.5 | 366 | 3.2 | 29 | 0.3 | 395 | 3.5 | 11,363 | 100.0 |
| | 1991 | 10,987 | 96.2 | 422 | 3.7 | 13 | 0.1 | 435 | 3.8 | 11,422 | 100.0 |
| | 1992 | 11,675 | 96.2 | 433 | 3.6 | 30 | 0.3 | 463 | 3.8 | 12,138 | 100.0 |
| | 1993 | 12,007 | 95.5 | 518 | 4.1 | 47 | 0.4 | 565 | 4.5 | 12,572 | 100.0 |
| | 1994 | 12,543 | 95.7 | 513 | 3.9 | 50 | 0.4 | 563 | 4.3 | 13,106 | 100.0 |
| | 1995 | 13,264 | 95.0 | 642 | 4.6 | 57 | 0.4 | 699 | 5.0 | 13,963 | 100.0 |
| | 1996 | 13,793 | 94.8 | 686 | 4.7 | 68 | 0.5 | 754 | 5.2 | 14,547 | 100.0 |
| | 1997 | 14,602 | 93.6 | 907 | 5.8 | 92 | 0.6 | 999 | 6.4 | 15,601 | 100.0 |

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[1] Differences in the number of births from previous publications are the result of updating of files.

## Table B-6. Resident Births By Mother's Age, Marital Status and Race/Ethnicity, Massachusetts: 1997

| Age of Mother | Marital Status | Total | White Non-Hispanic | Black Non-Hispanic | Hispanic | Asian | Other | Unknown |
|---|---|---|---|---|---|---|---|---|
| Grand Total | | 80,321[1] | 61,143 | 5,457 | 8,211 | 3,876 | 1,427 | 207 |
| Total Married | | 59,661 | 50,127 | 2,197 | 3,241 | 3,171 | 791 | 134 |
| Total Unmarried | | 20,640 | 11,005 | 3,260 | 4,970 | 704 | 635 | 66 |
| < 15 | Total | 103 | 21 | 19 | 50 | 10 | 3 | 0 |
| | Married | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmarried | 103 | 21 | 19 | 50 | 10 | 3 | 0 |
| 15 | Total | 290 | 89 | 43 | 134 | 16 | 7 | 1 |
| | Married | 8 | 1 | 0 | 5 | 1 | 1 | 0 |
| | Unmarried | 282 | 88 | 43 | 129 | 15 | 6 | 1 |
| 16 | Total | 694 | 261 | 105 | 263 | 42 | 20 | 3 |
| | Married | 29 | 6 | 0 | 20 | 2 | 1 | 0 |
| | Unmarried | 665 | 255 | 105 | 243 | 40 | 19 | 3 |
| 17 | Total | 1,121 | 522 | 163 | 349 | 38 | 46 | 3 |
| | Married | 48 | 22 | 1 | 19 | 3 | 3 | 0 |
| | Unmarried | 1,073 | 500 | 162 | 330 | 35 | 43 | 3 |
| 18 | Total | 1,613 | 843 | 212 | 440 | 50 | 62 | 6 |
| | Married | 148 | 70 | 7 | 56 | 6 | 9 | 0 |
| | Unmarried | 1,465 | 773 | 205 | 384 | 44 | 53 | 6 |
| 19 | Total | 2,083 | 1,129 | 252 | 571 | 58 | 67 | 6 |
| | Married | 332 | 185 | 16 | 107 | 10 | 13 | 1 |
| | Unmarried | 1,751 | 944 | 236 | 464 | 48 | 54 | 5 |
| 20-24 | Total | 11,653 | 6,991 | 1,277 | 2,498 | 500 | 361 | 26 |
| | Married | 4,691 | 3,199 | 262 | 766 | 300 | 152 | 12 |
| | Unmarried | 6,961 | 3,792 | 1,015 | 1,732 | 200 | 209 | 13 |
| 25-29 | Total | 20,715 | 15,789 | 1,328 | 1,960 | 1,214 | 377 | 47 |
| | Married | 16,368 | 13,417 | 613 | 1,017 | 1,038 | 254 | 29 |
| | Unmarried | 4,343 | 2,371 | 715 | 943 | 176 | 123 | 15 |
| 30-34 | Total | 26,445 | 22,247 | 1,252 | 1,311 | 1,281 | 305 | 49 |
| | Married | 23,917 | 20,859 | 770 | 828 | 1,198 | 224 | 38 |
| | Unmarried | 2,520 | 1,382 | 482 | 483 | 82 | 81 | 10 |
| 35-39 | Total | 13,155 | 11,211 | 667 | 537 | 538 | 150 | 52 |
| | Married | 11,936 | 10,500 | 433 | 349 | 502 | 111 | 41 |
| | Unmarried | 1,215 | 709 | 234 | 188 | 36 | 38 | 10 |
| 40-44 | Total | 2,346 | 1,959 | 132 | 94 | 122 | 26 | 13 |
| | Married | 2,096 | 1,799 | 88 | 71 | 105 | 20 | 13 |
| | Unmarried | 248 | 158 | 44 | 23 | 17 | 6 | 0 |
| ≥ 45 | Total | 100 | 80 | 7 | 3 | 7 | 3 | 0 |
| | Married | 87 | 68 | 7 | 3 | 6 | 3 | 0 |
| | Unmarried | 13 | 12 | 0 | 0 | 1 | 0 | 0 |
| Unknown | Total | 3 | 1 | 0 | 1 | 0 | 0 | 1 |
| | Married | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | Unmarried | 1 | 0 | 0 | 1 | 0 | 0 | 0 |

[1] Total includes 20 women with unknown marital status.

## Table B-7. Resident Births to Teenage Mothers: 1970-1997

| | | Age of Mother | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | Total Births | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Total 12-19 | % of Total Births |
| 1970 | 93,582 | 3 | 8 | 70 | 320 | 802 | 1,726 | 3,043 | 4,285 | 10,257 | 11.0 |
| 1971 | 86,755 | 3 | 23 | 84 | 313 | 875 | 1,738 | 2,981 | 4,000 | 10,017 | 11.5 |
| 1972 | 76,835 | 1 | 20 | 103 | 348 | 955 | 1,841 | 2,834 | 3,690 | 9,792 | 12.7 |
| 1973 | 72,237 | 0 | 12 | 93 | 393 | 959 | 1,759 | 2,584 | 3,282 | 9,082 | 12.6 |
| 1974 | 70,071 | 2 | 16 | 79 | 333 | 895 | 1,762 | 2,524 | 3,181 | 8,792 | 12.5 |
| 1975 | 68,070 | 2 | 18 | 84 | 325 | 915 | 1,678 | 2,560 | 3,085 | 8,667 | 12.7 |
| 1976 | 65,947 | 7 | 12 | 96 | 336 | 807 | 1,478 | 2,332 | 2,923 | 7,991 | 12.1 |
| 1977 | 67,838 | 1 | 18 | 68 | 270 | 792 | 1,477 | 2,293 | 2,913 | 7,832 | 11.5 |
| 1978 | 68,526 | 3 | 15 | 67 | 303 | 737 | 1,445 | 2,252 | 2,979 | 7,801 | 11.4 |
| 1979 | 70,568 | 2 | 9 | 70 | 283 | 773 | 1,413 | 2,306 | 2,916 | 7,772 | 11.0 |
| 1980 | 72,591 | 1 | 14 | 56 | 300 | 740 | 1,360 | 2,202 | 3,092 | 7,765 | 10.7 |
| 1981 | 73,931 | 1 | 12 | 82 | 275 | 722 | 1,357 | 2,164 | 2,816 | 7,429 | 10.0 |
| 1982 | 75,749 | 1 | 14 | 83 | 299 | 753 | 1,328 | 2,161 | 2,722 | 7,361 | 9.7 |
| 1983 | 76,031 | 0 | 8 | 78 | 255 | 726 | 1,278 | 2,053 | 2,521 | 6,919 | 9.1 |
| 1984 | 78,198 | 1 | 8 | 75 | 265 | 714 | 1,307 | 2,061 | 2,585 | 7,016 | 9.0 |
| 1985 | 81,776 | 4 | 12 | 97 | 295 | 698 | 1,283 | 1,986 | 2,595 | 6,970 | 8.5 |
| 1986 | 82,163 | 0 | 15 | 82 | 334 | 712 | 1,233 | 1,954 | 2,521 | 6,851 | 8.3 |
| 1987 | 84,343 | 2 | 15 | 79 | 327 | 796 | 1,337 | 1,965 | 2,498 | 7,019 | 8.3 |
| 1988 | 88,047 | 0 | 27 | 120 | 352 | 732 | 1,450 | 2,068 | 2,511 | 7,260 | 8.2 |
| 1989 | 91,314 | 0 | 19 | 108 | 345 | 853 | 1,426 | 2,207 | 2,776 | 7,734 | 8.5 |
| 1990 | 92,461 | 3 | 18 | 103 | 351 | 810 | 1,344 | 2,014 | 2,739 | 7,382 | 8.0 |
| 1991 | 88,176 | 2 | 18 | 102 | 372 | 758 | 1,391 | 1,910 | 2,461 | 7,014 | 7.9 |
| 1992 | 87,202 | 3 | 14 | 103 | 341 | 782 | 1,327 | 1,753 | 2,352 | 6,675 | 7.6 |
| 1993 | 84,627 | 1 | 15 | 121 | 360 | 741 | 1,259 | 1,872 | 2,237 | 6,606 | 7.8 |
| 1994 | 83,758 | 3 | 21 | 131 | 371 | 822 | 1,244 | 1,758 | 2,217 | 6,567 | 7.8 |
| 1995 | 81,562 | 1 | 18 | 98 | 356 | 721 | 1,203 | 1,648 | 2,062 | 6,107 | 7.5 |
| 1996 | 80,164 | 0 | 11 | 80 | 342 | 687 | 1,115 | 1,666 | 1,948 | 5,849 | 7.3 |
| 1997 | 80,321 | 4 | 15 | 84 | 290 | 694 | 1,121 | 1,613 | 2,083 | 5,904 | 7.3 |

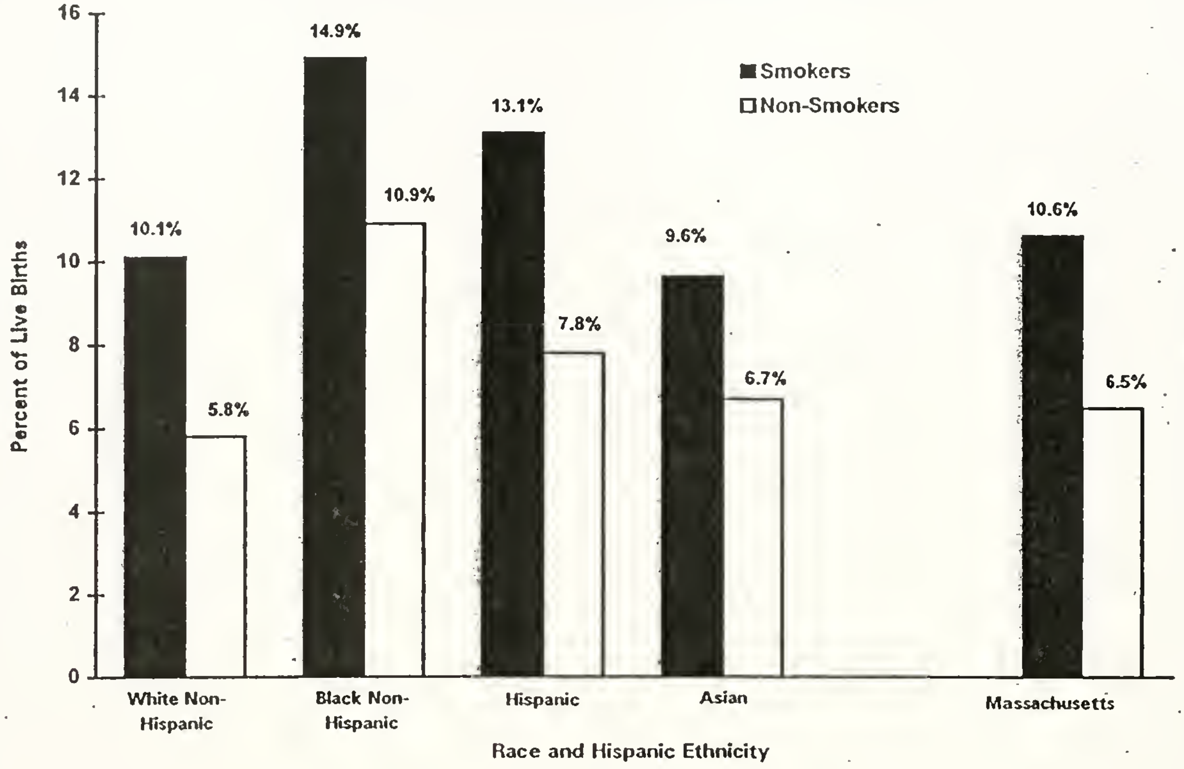
## Table B-8. Births by Birthweight, Race and Hispanic Ethnicity, Massachusetts: 1997

| Birthweight | Total |  | White non-Hispanic |  | Black non-Hispanic |  | Hispanic |  | Asian |  | Other |  | Unknown |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | # | %[1] | # | % | # | % | # | % | # | % | # | % | # | % |
| State Total | 80,321 | 100.0 | 61,143 | 100.0 | 5,457 | 100.0 | 8,211 | 100.0 | 3,876 | 100.0 | 1,427 | 100.0 | 207 | 100.0 |
| <500 | 117 | 0.1 | 66 | 0.1 | 17 | 0.3 | 26 | 0.3 | 2 | --[2] | 2 | --[2] | 4 | --[2] |
| 500-999 | 438 | 0.5 | 296 | 0.5 | 75 | 1.4 | 41 | 0.5 | 11 | 0.3 | 13 | 0.9 | 2 | --[2] |
| 1000-1499 | 543 | 0.7 | 372 | 0.6 | 73 | 1.3 | 70 | 0.9 | 16 | 0.4 | 11 | 0.8 | 1 | --[2] |
| 1500-1999 | 1,100 | 1.4 | 774 | 1.3 | 125 | 2.3 | 124 | 1.5 | 49 | 1.3 | 22 | 1.5 | 6 | 2.9 |
| 2000-2499 | 3,419 | 4.3 | 2,407 | 3.9 | 327 | 6.0 | 419 | 5.1 | 186 | 4.8 | 76 | 5.3 | 4 | --[2] |
| 2500-2999 | 11,663 | 14.5 | 7,908 | 12.9 | 1,078 | 19.8 | 1,566 | 19.1 | 812 | 20.9 | 277 | 19.4 | 22 | 10.6 |
| 3000-3499 | 28,423 | 35.4 | 20,913 | 34.2 | 2,025 | 37.1 | 3,215 | 39.2 | 1,681 | 43.4 | 542 | 38.0 | 47 | 22.7 |
| 3500-3999 | 24,879 | 31.0 | 20,136 | 32.9 | 1,307 | 24.0 | 2,119 | 25.8 | 931 | 24.0 | 357 | 25.0 | 29 | 14.0 |
| 4000-4499 | 8,034 | 10.0 | 6,881 | 11.3 | 350 | 6.4 | 520 | 6.3 | 160 | 4.1 | 113 | 7.9 | 10 | 4.8 |
| 4500-4999 | 1,428 | 1.8 | 1,226 | 2.0 | 66 | 1.2 | 99 | 1.2 | 22 | 0.6 | 11 | 0.8 | 4 | --[2] |
| >=5000 | 142 | 0.2 | 126 | 0.2 | 7 | 0.1 | 7 | 0.1 | 2 | --[2] | 0 | 0.0 | 0 | 0.0 |
| Unknown | 135 | 0.2 | 38 | 0.1 | 7 | 0.1 | 5 | 0.1 | 4 | 0.1 | 3 | 0.2 | 78 | 37.7 |
| VLBW[3] (0-1499 gms) | 1,098 | 1.4 | 734 | 1.2 | 165 | 3.0 | 137 | 1.7 | 29 | 0.7 | 26 | 1.8 | 7 | 3.4 |
| LBW[4] (0-2499 gms) | 5,617 | 7.0 | 3,915 | 6.4 | 617 | 11.3 | 680 | 8.3 | 264 | 6.8 | 124 | 8.7 | 17 | 8.2 |

---

[1] Percentages are based on column totals.
[2] Calculations based on fewer than five events are excluded.
[3] VLBW: Very Low Birthweight.
[4] LBW: Low Birthweight.

Figure B-8. Low Birthweight[1] Among Smoking and Nonsmoking[2] Mothers, by Race and Hispanic Ethnicity, Massachusetts: 1997



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[1] Low birthweight=less than 2,500 grams or 5.5 pounds.

[2] Based on information provided on the birth certificate by the mother.

NOTE: Maternal smoking is self-reported, usually following the birth of their child; these data should be interpreted cautiously.

## Table B-9. Low Birthweight[1] by Maternal Age, Race and Hispanic Ethnicity, Massachusetts: 1997

| Mother's Age | Total LBW Infants | | White non-Hispanic | | Black non-Hispanic | | Hispanic | | Asian | | Other | | Unknown | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | %[3] | # | %[3] | # | %[3] | # | %[3] | # | %[3] | # | %[3] | # | %[3] |
| **State Total[2]** | 5,617 | 7.0 | 3,915 | 6.4 | 617 | 11.3 | 680 | 8.3 | 264 | 6.8 | 124 | 8.7 | 17 | 8.3 |
| **<18** | 248 | 11.2 | 73 | 8.2 | 47 | 14.2 | 104 | 13.1 | 15 | 14.2 | 9 | 11.8 | 0 | 0.0 |
| **18-19** | 312 | 8.4 | 151 | 7.7 | 53 | 11.4 | 75 | 7.4 | 15 | 13.9 | 14 | 10.9 | 4 | –[4] |
| **20-24** | 843 | 7.2 | 440 | 6.3 | 145 | 11.4 | 191 | 7.6 | 36 | 7.2 | 29 | 8.0 | 2 | –[4] |
| **25-29** | 1,270 | 6.1 | 907 | 5.7 | 126 | 9.5 | 127 | 6.5 | 80 | 6.6 | 27 | 7.2 | 3 | –[4] |
| **30-34** | 1,689 | 6.4 | 1,324 | 6.0 | 143 | 11.4 | 111 | 8.5 | 83 | 6.5 | 25 | 8.2 | 3 | –[4] |
| **35-39** | 1,039 | 7.9 | 846 | 7.5 | 84 | 12.6 | 57 | 10.6 | 29 | 5.4 | 19 | 12.7 | 4 | –[4] |
| **40+** | 216 | 8.8 | 174 | 8.5 | 19 | 13.7 | 15 | 15.5 | 6 | 4.7 | 1 | –[4] | 1 | –[4] |

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[1] Low Birthweight: an infant weighing < 2,500 grams or 5.5 pounds at birth.

[2] State totals include women of unknown age.

[3] Percentages are based upon the number of low birthweight infants divided by the total births in each age and race/ethnicity category.

[4] Calculations based on fewer than five events are excluded.

## Table B-10. Births by Gestational Age[1], Race and Hispanic Ethnicity, Massachusetts: 1997

| Gestational Age | Total | | White non-Hispanic | | Black non-Hispanic | | Hispanic | | Asian | | Other | | Unknown | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (weeks completed) | # | %[2] | # | % | # | % | # | % | # | % | # | % | # | % |
| State Total | 80,321 | 100.0 | 61,143 | 100.0 | 5,457 | 100.0 | 8,211 | 100.0 | 3,876 | 100.0 | 1,427 | 100.0 | 207 | 100.0 |
| <20 | 14 | 0.0 | 9 | 0.0 | 0 | 0.0 | 5 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| 20-23 | 148 | 0.2 | 84 | 0.1 | 27 | 0.5 | 23 | 0.3 | 5 | 0.1 | 6 | 0.4 | 3 | --[3] |
| 24-27 | 335 | 0.4 | 228 | 0.4 | 51 | 0.9 | 39 | 0.5 | 7 | 0.2 | 10 | 0.7 | 0 | 0.0 |
| 28-31 | 660 | 0.8 | 451 | 0.7 | 87 | 1.6 | 85 | 1.0 | 17 | 0.4 | 17 | 1.2 | 3 | --[3] |
| 32-35 | 2,602 | 3.2 | 1,867 | 3.1 | 275 | 5.0 | 309 | 3.8 | 97 | 2.5 | 50 | 3.5 | 4 | --[3] |
| 36 | 2,074 | 2.6 | 1,516 | 2.5 | 163 | 3.0 | 254 | 3.1 | 97 | 2.5 | 39 | 2.7 | 5 | 2.4 |
| 37-39[4] | 27,058 | 33.7 | 19,776 | 32.3 | 2,100 | 38.5 | 3,070 | 37.4 | 1,560 | 40.2 | 516 | 36.2 | 36 | 17.4 |
| 40 | 31,360 | 39.0 | 24,493 | 40.1 | 1,793 | 32.9 | 2,974 | 36.2 | 1,533 | 39.6 | 524 | 36.7 | 43 | 20.8 |
| 41 | 12,120 | 15.1 | 9,680 | 15.8 | 699 | 12.8 | 1,099 | 13.4 | 438 | 11.3 | 198 | 13.9 | 6 | 2.9 |
| 42 | 3,107 | 3.9 | 2,488 | 4.1 | 197 | 3.6 | 284 | 3.5 | 87 | 2.2 | 48 | 3.4 | 3 | --[3] |
| 43 | 176 | 0.2 | 110 | 0.2 | 20 | 0.4 | 30 | 0.4 | 11 | 0.3 | 5 | 0.4 | 0 | 0.0 |
| 44+ | 78 | 0.1 | 49 | 0.1 | 11 | 0.2 | 12 | 0.1 | 4 | --[3] | 2 | --[3] | 0 | 0.0 |
| Unknown[5] | 589 | 0.7 | 392 | 0.6 | 34 | 0.6 | 27 | 0.3 | 20 | 0.5 | 12 | 0.8 | 104 | 50.2 |
| Very early gestation, <28 weeks | 497 | 0.6 | 321 | 0.5 | 78 | 1.4 | 67 | 0.8 | 12 | 0.3 | 16 | 1.1 | 3 | --[3] |
| Preterm, <37 weeks[6] | 5,833 | 7.3 | 4,155 | 6.8 | 603 | 11.1 | 715 | 8.7 | 223 | 5.8 | 122 | 8.5 | 15 | 7.2 |

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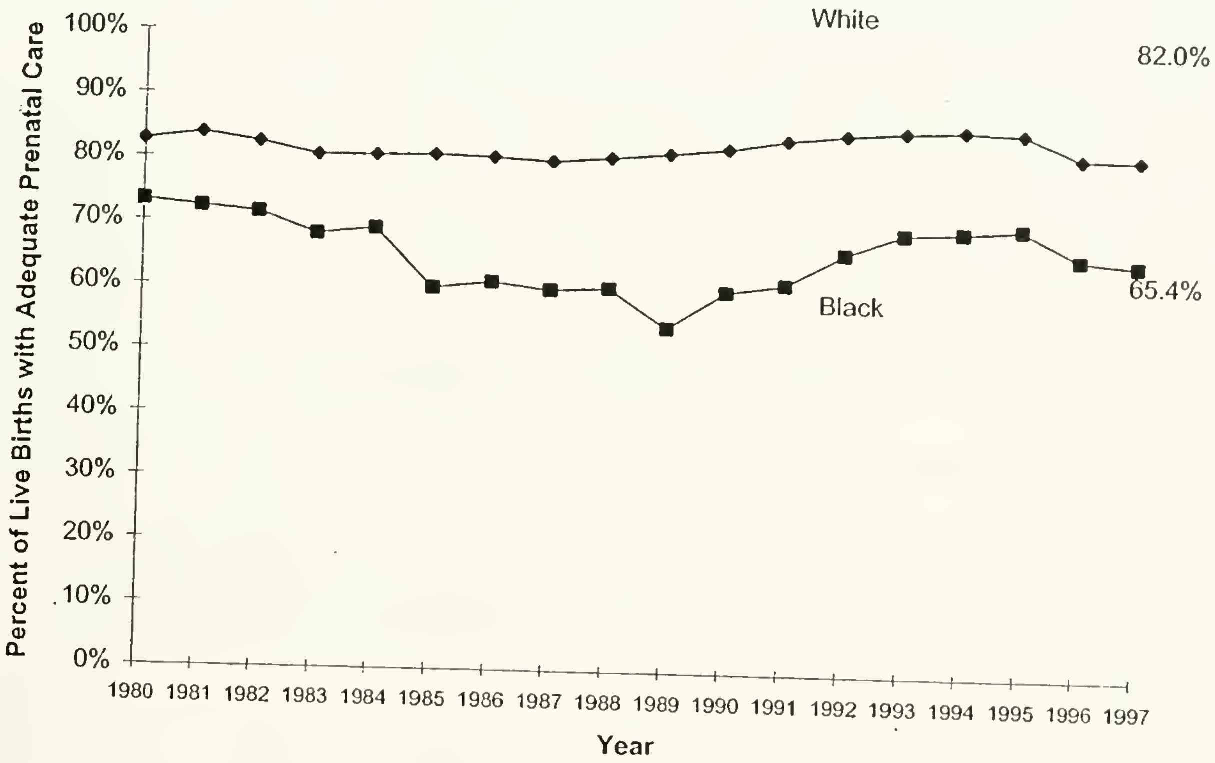
[1] A clinical estimate of the number of weeks of pregnancy completed; as estimated by the attendant at birth or the postnatal physician.
[2] Percentages are based on column total.
[3] Calculations based on fewer than five events are excluded.
[4] Normal gestational age is defined as 37-42 weeks.
[5] Estimate of gestational age not provided.
[6] Also known as early gestational age, premature delivery, or preterm delivery.

## Figure B-9. Trends in Adequacy of Prenatal Care[1,2] by Race[3], Massachusetts: 1980-1997



[1] Calculations are based on births with known Adequacy of Prenatal Care scores.

[2] Due to changes beginning in 1996 in the collection of information on Adequacy of Prenatal Care, caution should be used when comparing these data over time.

[3] On graphs which include data prior to June 1986, the race classifications do not include ethnicity; most Hispanics are included in the race category of white.

## Table B-11. Low Birthweight by Level of Prenatal Care, Race and Hispanic Ethnicity, Massachusetts: 1997

| Race, Ethnicity, and Birthweight | | Total[1] | Level of Prenatal Care[2] | | |
|---|---|---|---|---|---|
| | | | Adequate | Intermediate | Late/None |
| STATE TOTAL | Total | 78,779 | 63,134 | 13,067 | 2,578 |
| Low Birthweight[3] | # | 5,304 | 4,031 | 1,067 | 206 |
| | % | 6.7 | 6.4 | 8.2 | 8.0 |
| White non-Hispanic | Total | 60,165 | 50,615 | 8,347 | 1,203 |
| Low Birthweight[3] | # | 3,725 | 3,001 | 636 | 88 |
| | % | 6.2 | 5.9 | 7.6 | 7.3 |
| Black non-Hispanic | Total | 5,277 | 3,504 | 1,317 | 456 |
| Low Birthweight[3] | # | 557 | 363 | 141 | 53 |
| | % | 10.6 | 10.4 | 10.7 | 11.6 |
| Hispanic | Total | 8,055 | 5,343 | 2,100 | 612 |
| Low Birthweight[3] | # | 643 | 425 | 181 | 37 |
| | % | 8.0 | 8.0 | 8.6 | 6.0 |
| Asian | Total | 3,815 | 2,753 | 898 | 164 |
| Low Birthweight[3] | # | 252 | 173 | 67 | 12 |
| | % | 6.6 | 6.3 | 7.5 | 7.3 |
| Other/Unknown | Total | 1,467 | 919 | 405 | 143 |
| Low Birthweight[3] | # | 127 | 69 | 42 | 16 |
| | % | 8.7 | 7.5 | 10.4 | 11.2 |

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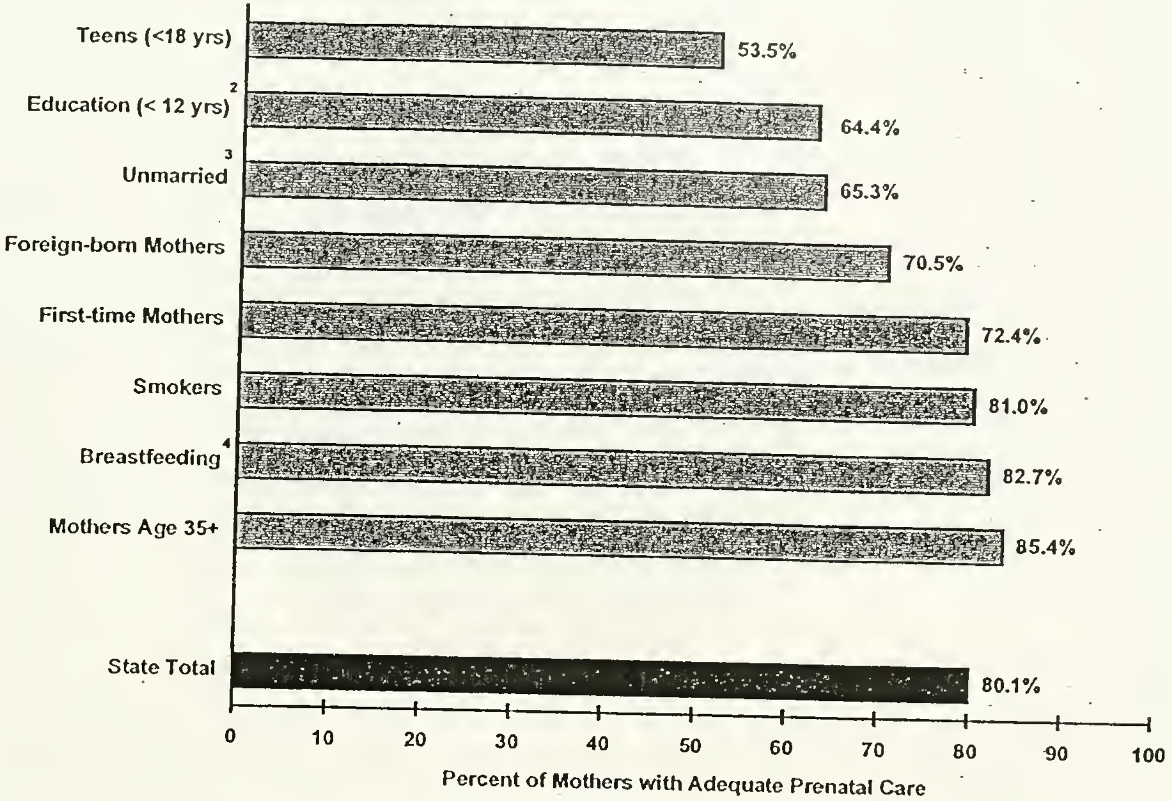
[1] All data are based on the 78,779 births with known Adequacy of Prenatal Care data.

[2] Detailed explanation of the levels of prenatal care is presented in this section's opening narrative.

[3] Low birthweight: <2,500 grams or 5.5 pounds.

Figure B-10. Adequacy of Prenatal Care[1] for Selected Population Characteristics, Massachusetts: 1997



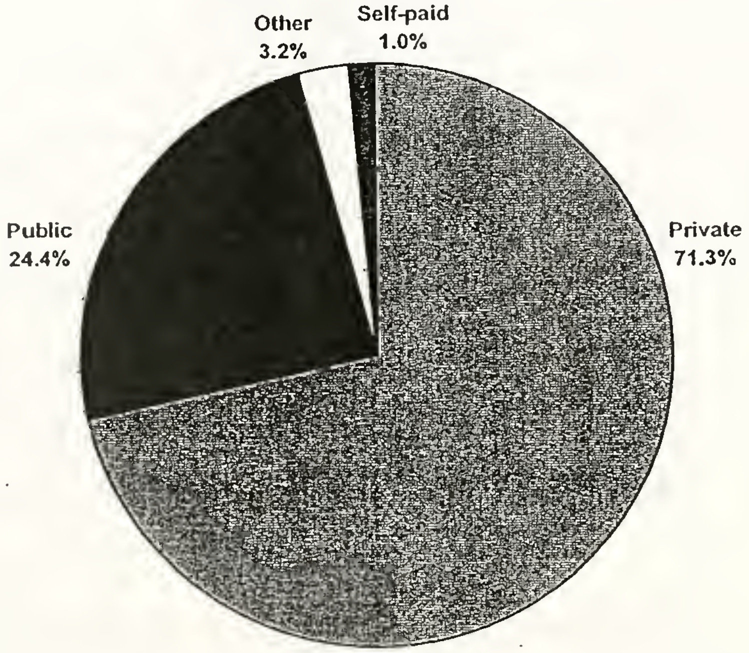
[1] Calculations are based on births with known Adequacy of Prenatal Care scores.

[2] Women 20 years of age and older.

[3] Pertains to marital status at time of conception.

[4] Mother was or was intending to breastfeed at the time the birth certificate was completed.

## Figure B-11. Distribution of Prenatal Care Payment Source[1], Massachusetts: 1997



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[1] The source of payment for prenatal care is a self-reported item on the birth certificate. Private: Blue Cross/Blue Shield, commercial insurance and HMO's. Public: Medicaid, Medicare, Healthy Start, free care, and other government sources. Other: Worker's Compensation and other sources.

## Table B-12. Birth Characteristics by Source of Prenatal Care Payment, Race, and Hispanic Ethnicity, Massachusetts: 1997

| Race, Ethnicity, and Payment Source | Births[1] | | Teen Births | | | | Birthweight | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | <18 Years | | <20 Years | | Very Low[2] | | Low[3] | |
| | # | % | # | % | # | % | # | % | # | % |
| STATE TOTAL[4] | 80,321 | 100.0 | 2,208 | 2.7 | 5,904 | 7.4 | 1,098 | 1.4 | 5,617 | 7.0 |
| Public | 19,607 | 24.4 | 1,486 | 7.6 | 4,056 | 20.7 | 305 | 1.6 | 1,668 | 8.5 |
| Medicaid | 17,146 | 21.3 | 1,428 | 8.3 | 3,825 | 22.3 | 283 | 1.7 | 1,500 | 8.7 |
| Other Public[5] | 2,461 | 3.1 | 58 | 2.4 | 231 | 9.4 | 22 | 0.9 | 168 | 6.8 |
| Private[6] | 57,236 | 71.3 | 615 | 1.1 | 1,588 | 2.8 | 693 | 1.2 | 3,618 | 6.3 |
| White non-Hispanic | 61,143 | 100.0 | 893 | 1.5 | 2,865 | 4.7 | 734 | 1.2 | 3,915 | 6.4 |
| Public | 9,393 | 15.4 | 472 | 5.0 | 1,645 | 17.5 | 111 | 1.2 | 720 | 7.7 |
| Medicaid | 8,481 | 13.9 | 461 | 5.4 | 1,587 | 18.7 | 104 | 1.2 | 670 | 7.9 |
| Other Public[5] | 912 | 1.5 | 11 | 1.2 | 58 | 6.4 | 7 | 0.8 | 50 | 5.5 |
| Private[6] | 49,134 | 80.4 | 375 | 0.8 | 1,087 | 2.2 | 550 | 1.1 | 2,953 | 6.0 |
| Black non-Hispanic | 5,457 | 100.0 | 330 | 6.0 | 794 | 14.6 | 165 | 3.0 | 617 | 11.3 |
| Public | 2,920 | 53.5 | 233 | 8.0 | 599 | 20.5 | 77 | 2.6 | 340 | 11.6 |
| Medicaid | 2,593 | 47.5 | 225 | 8.7 | 568 | 21.9 | 70 | 2.7 | 304 | 11.7 |
| Other Public[5] | 327 | 6.0 | 8 | 2.4 | 31 | 9.5 | 7 | 2.1 | 36 | 11.0 |
| Private[6] | 2,326 | 42.6 | 82 | 3.5 | 168 | 7.2 | 74 | 3.2 | 242 | 10.4 |
| Hispanic | 8,211 | 100.0 | 796 | 9.7 | 1,807 | 22.0 | 137 | 1.7 | 680 | 8.3 |
| Public | 5,509 | 67.1 | 649 | 11.8 | 1,487 | 27.0 | 93 | 1.7 | 457 | 8.3 |
| Medicaid | 4,584 | 55.8 | 618 | 13.5 | 1,373 | 30.0 | 89 | 1.9 | 400 | 8.7 |
| Other Public[5] | 925 | 11.3 | 31 | 3.4 | 114 | 12.3 | 4 | –[7] | 57 | 6.2 |
| Private[6] | 2,380 | 29.0 | 113 | 4.7 | 244 | 10.3 | 37 | 1.6 | 190 | 8.0 |
| Asian | 3,876 | 100.0 | 106 | 2.7 | 214 | 5.5 | 29 | 0.7 | 264 | 6.8 |
| Public | 1,019 | 26.3 | 82 | 8.0 | 172 | 16.9 | 8 | 0.8 | 80 | 7.9 |
| Medicaid | 923 | 23.8 | 78 | 8.5 | 160 | 17.3 | 8 | 0.9 | 77 | 8.3 |
| Other Public[5] | 96 | 2.5 | 4 | –[7] | 12 | 12.5 | 0 | –[7] | 3 | –[7] |
| Private[6] | 2,737 | 70.6 | 22 | 0.8 | 40 | 1.5 | 20 | 0.7 | 180 | 6.6 |
| Other/Unknown[8] | 1,634 | 100.0 | 83 | 5.1 | 224 | 13.7 | 33 | 2.0 | 141 | 8.6 |
| Public | 766 | 46.9 | 50 | 6.5 | 153 | 20.0 | 16 | 2.1 | 71 | 9.3 |
| Medicaid | 565 | 34.6 | 46 | 8.1 | 137 | 24.2 | 12 | 2.1 | 49 | 8.7 |
| Other Public[5] | 201 | 12.3 | 4 | –[7] | 16 | 8.0 | 4 | –[7] | 22 | 10.9 |
| Private[6] | 659 | 40.3 | 23 | 3.5 | 49 | 7.4 | 12 | 1.8 | 53 | 8.0 |

## Table B-12. (cont'd) Birth Characteristics by Source of Prenatal Care Payment, Race, and Hispanic Ethnicity, Massachusetts: 1997

| Race, Ethnicity, and Payment Source | Prenatal Care | | | | Caesarean Section | | Breastfeeding[9] | |
|---|---|---|---|---|---|---|---|---|
| | Adequate | | Began 1st Trimester | | | | | |
| | # | % | # | % | # | % | # | % |
| STATE TOTAL[4] | 63,134 | 80.1 | 67,035 | 84.4 | 15,853 | 19.8 | 53,231 | 67.9 |
| Public | 12,149 | 63.2 | 13,258 | 68.5 | 3,318 | 16.9 | 10,310 | 53.2 |
| Medicaid | 10,607 | 63.1 | 11,559 | 68.3 | 2,862 | 16.7 | 8,523 | 50.2 |
| Other Public[5] | 1,542 | 64.0 | 1,699 | 70.1 | 456 | 18.5 | 1,787 | 73.8 |
| Private[6] | 48,881 | 86.2 | 51,292 | 90.1 | 11,936 | 20.9 | 41,645 | 73.1 |
| White non-Hispanic | 50,615 | 84.1 | 53,423 | 88.1 | 12,348 | 20.2 | 40,805 | 68.4 |
| Public | 6,268 | 67.9 | 6,721 | 72.4 | 1,650 | 17.6 | 4,470 | 47.8 |
| Medicaid | 5,627 | 67.5 | 6,028 | 72.0 | 1,467 | 17.3 | 3,829 | 45.3 |
| Other Public[5] | 641 | 71.2 | 693 | 76.7 | 183 | 20.1 | 641 | 70.8 |
| Private[6] | 42,594 | 87.4 | 44,634 | 91.2 | 10,220 | 20.8 | 35,503 | 72.5 |
| Black non-Hispanic | 3,504 | 66.4 | 3,870 | 72.5 | 1,145 | 21.0 | 3,281 | 61.9 |
| Public | 1,573 | 55.7 | 1,819 | 63.7 | 506 | 17.3 | 1,467 | 51.5 |
| Medicaid | 1,418 | 56.5 | 1,632 | 64.3 | 444 | 17.1 | 1,267 | 50.0 |
| Other Public[5] | 155 | 49.4 | 187 | 59.0 | 62 | 19.0 | 200 | 62.9 |
| Private[6] | 1,839 | 80.6 | 1,936 | 84.1 | 607 | 26.2 | 1,706 | 74.8 |
| Hispanic | 5,343 | 66.3 | 5,766 | 71.1 | 1,456 | 17.8 | 5,532 | 68.2 |
| Public | 3,363 | 62.1 | 3,661 | 67.2 | 887 | 16.1 | 3,508 | 64.4 |
| Medicaid | 2,778 | 61.6 | 3,028 | 66.7 | 739 | 16.1 | 2,774 | 61.1 |
| Other Public[5] | 585 | 64.8 | 633 | 69.5 | 148 | 16.0 | 734 | 80.7 |
| Private[6] | 1,838 | 78.0 | 1,943 | 82.1 | 518 | 21.8 | 1,808 | 76.5 |
| Asian | 2,753 | 72.2 | 2,938 | 76.7 | 590 | 15.3 | 2,627 | 68.4 |
| Public | 564 | 56.2 | 607 | 60.3 | 119 | 11.7 | 427 | 42.2 |
| Medicaid | 505 | 55.7 | 544 | 59.7 | 108 | 11.7 | 364 | 39.7 |
| Other Public[5] | 59 | 61.5 | 63 | 65.6 | 11 | 11.5 | 63 | 66.3 |
| Private[6] | 2,121 | 78.4 | 2,254 | 83.0 | 455 | 16.6 | 2,130 | 78.2 |
| Other/Unknown[8] | 919 | 62.6 | 1,038 | 69.7 | 314 | 19.8 | 986 | 67.9 |
| Public | 381 | 51.6 | 450 | 60.0 | 156 | 20.4 | 438 | 60.2 |
| Medicaid | 279 | 51.3 | 327 | 59.0 | 104 | 18.4 | 289 | 54.1 |
| Other Public[5] | 102 | 52.3 | 123 | 62.8 | 52 | 25.9 | 149 | 76.8 |
| Private[6] | 489 | 76.0 | 525 | 80.9 | 136 | 20.6 | 498 | 76.7 |

[1] In the "Births" category, percentages are based on race/ethnicity totals (group column). For all other categories, percentages are based on Birth totals (row total) excluding unknowns for each characteristic.

[2] Very low birthweight: <1,500 grams or 3.3 pounds.

[3] Low Birthweight: < 2,500 grams or 5.5 pounds.

[4] Total births does not equal Public + Private. Other categories of prenatal care payment are also included in Total: Workers' Compensation, self-paid, and other.

[5] Other Public: Healthy Start, other government programs, and free care.

[6] Private: Blue Cross/Blue Shield, commercial insurance, and HMO.

[7] Calculations based on fewer than five events are excluded.

[8] Other: Mothers who self-designated other races or for whom race was unknown.

[9] Mother was intending to breastfeed at the time the birth certificate was completed.

## Table B-13. Birth Characteristics by Licensed Maternity Facility, Massachusetts: 1997[1,2]

| Facility | Location | Occurrence Births | Low Birthweight | Public Payment for Delivery[3] | Adequate Prenatal Care |
|---|---|---|---|---|---|
| **STATE TOTAL[4,5]** | | 81,264 | 7.0 | 24.4 | 80.1 |
| Anna Jaques Hospital | Newburyport | 726 | 4.4 | 14.5 | 81.5 |
| Baystate Medical Center | Springfield | 5,182 | 10.2 | 40.4 | 72.7 |
| Berkshire Medical Center | Pittsfield | 917 | 6.9 | 27.4 | 73.7 |
| Beth Israel Deaconess Medical Center | Boston | 5,108 | 9.7 | 16.2 | 82.6 |
| Beverly Hospital | Beverly | 2,633 | 4.2 | 19.0 | 84.6 |
| Boston Medical Center | Boston | 1,542 | 11.5 | 86.9 | 37.6[6] |
| Boston Regional Medical Center | Stoneham | 1,254 | 2.2 | 5.0 | 82.3 |
| Brigham And Women's Hosp. | Boston | 8,831 | 11.5 | 17.0 | 94.7 |
| Brockton Hospital | Brockton | 947 | 7.0 | 35.8 | 70.9 |
| Cambridge Hospital | Cambridge | 650 | 3.4 | 73.2 | 63.8 |
| Cape Cod Hospital | Barnstable | 1,031 | 4.2 | 23.6 | 82.6 |
| Charlton Memorial Hospital | Fall River | 1,627 | 6.0 | 33.9 | 79.5 |
| Cooley Dickinson Hospital | Northampton | 937 | 1.9 | 17.5 | 84.7 |
| Deaconess Waltham Hospital | Waltham | 244 | 4.9 | 37.7 | 76.9 |
| Emerson Hospital | Concord | 1,480 | 2.2 | 4.9 | 87.0 |
| Fairview Hospital | Great Barrington | 181 | 3.3 | 35.9 | 79.1 |
| Falmouth Hospital | Falmouth | 621 | 3.4 | 33.0 | 70.6 |
| Franklin Medical Center | Greenfield | 567 | 4.1 | 36.1 | 73.4 |
| Good Samaritan Medical Center | Brockton | 1,315 | 4.9 | 37.0 | 66.7 |
| Hale Hospital | Haverhill | 529 | 4.2 | 43.6 | 71.5 |
| Harrington Memorial Hospital | Southbridge | 441 | 4.8 | 37.4 | 84.9 |
| Heywood Hospital | Gardner | 444 | 3.2 | 34.5 | 67.5 |
| Holy Family Hospital and Medical Center | Methuen | 1,132 | 3.1 | 19.6 | 78.7 |
| Holyoke Hospital | Holyoke | 457 | 6.1 | 42.0 | 73.8 |
| Jordan Hospital | Plymouth | 819 | 2.9 | 25.6 | 76.4 |
| Lawrence General Hospital | Lawrence | 1,415 | 5.3 | 49.6 | 61.1 |
| Leominster Hospital | Leominster | 1,446 | 4.4 | 27.9 | 73.5 |
| Lowell General Hospital | Lowell | 2,328 | 5.2 | 33.7 | 66.4 |
| Malden Hospital | Malden | 469 | 4.1 | 33.5 | 67.3 |
| Martha's Vineyard Hospital | Oak Bluffs | 129 | 2.3 | 29.5 | 80.7 |
| Mary Lane Hospital | Ware | 194 | 5.7 | 35.6 | 76.6 |
| Massachusetts General Hospital | Boston | 2,266 | 13.2 | 29.8 | 72.7 |
| Melrose-Wakefield Hospital | Melrose | 1,307 | 3.4 | 12.9 | 89.9 |
| Memorial Hospital | Worcester | 3,982 | 11.6 | 27.2 | 62.6 |
| Mercy Hospital | Springfield | 617 | 3.9 | 52.4 | 70.5 |
| Metrowest Medical Center-Framingham Union Campus | Framingham | 2,661 | 4.5 | 11.0 | 89.9 |

## Table B-13. (cont'd) Births Characteristics by Licensed Maternity Facility, Massachusetts: 1997[1,2]

| Facility | Location | Occurrence Births | Low Birthweight | Public Payment for Delivery[3] | Adequate Prenatal Care |
|---|---|---|---|---|---|
| Milford-Whitinsville Regional Hospital | Milford | 576 | 3.1 | 21.6 | 81.8 |
| Morton Hospital | Taunton | 703 | 3.4 | 34.3 | 80.6 |
| Mount Auburn Hospital | Cambridge | 1,207 | 4.1 | 8.2 | 87.9 |
| Nantucket Cottage Hospital | Nantucket | 72 | 1.4 | 16.7 | 82.6 |
| New England Medical Center Hospital | Boston | 1,588 | 22.0 | 36.3 | 84.8 |
| Newton Wellesley Hospital | Newton | 4,257 | 4.2 | 1.0 | 87.9 |
| North Adams Regional Hospital | North Adams | 355 | 4.2 | 38.9 | 87.8 |
| North Shore Birth Center | Beverly | 89 | 0.0 | 10.1 | 79.8 |
| North Shore Medical Center - Salem Hospital | Salem | 1,731 | 4.7 | 31.7 | 88.9 |
| Norwood Hospital | Norwood | 994 | 2.1 | 11.2 | 89.0 |
| Quincy Hospital | Quincy | 660 | 3.9 | 30.5 | 77.7 |
| Saint Vincent Hospital | Worcester | 2,000 | 4.0 | 17.0 | 78.7 |
| Saints Memorial Medical Ctr.- St. John's Campus | Lowell | 518 | 4.8 | 29.3 | 76.7 |
| South Shore Hospital | Weymouth | 3,186 | 4.1 | 4.7 | 94.4 |
| St. Elizabeth's Medical Center of Boston | Boston | 1,682 | 9.6 | 29.4 | 87.9 |
| St. Luke's Hospital | New Bedford | 1,557 | 5.1 | 46.0 | 74.6 |
| Sturdy Memorial Hospital | Attleboro | 829 | 3.6 | 25.7 | 79.2 |
| The Birthplace At Wellesley | Wellesley | 83 | 0.0 | 2.4 | 62.7 |
| Tobey Hospital | Wareham | 452 | 5.1 | 31.2 | 86.4 |
| Winchester Hospital | Winchester | 2,036 | 5.8 | 4.6 | 80.8 |
| All Other Hospitals[7] | | 9 | 22.2 | 44.4 | 85.7 |
| Home births, enroute, other | | 251 | 10.4 | 22.3 | 55.0 |

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[1] See opening narrative for definition of occurrence births.

[2] A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of women during pregnancy and childbirth.

[3] Public payment for delivery includes Medicaid/Commonhealth, Medicare, Healthy Start, other government programs, and free care.

[4] Percentages calculated on births with known method of delivery.

[5] The percentages provided in this row are based on occurrence births and may differ from data presented elsewhere in this book which are based on resident births. For percentage calculations, denominators exclude unknown values.

[6] This percent should be interpreted with caution because of inconsistencies and incompleteness in the information that is used in the calculation of Adequacy of Prenatal Care. For example, there are 46 records that contain a date for the first prenatal care visit but the number of total visits reported is zero (0). Other inconsistencies and inaccuracies in the prenatal care data from Boston Medical Center are currently under review by the Registry of Vital Records and Statistics.

[7] Includes 2 births which occurred at the Cambridge Birth Center which opened on December 9, 1997.

## Table B-13A. Caesarean Section Deliveries and Vaginal Births after Caesarean Section (VBACs) by Licensed Maternity Facility, Massachusetts: 1997[1,2,3]

| Facility | Occurrence Births | Total C-Sections | | Primary C-Section | | Repeat C-Section | | VBACs | |
|---|---|---|---|---|---|---|---|---|---|
| | | # | %[4] | # | %[5] | # | %[6] | # | %[7] |
| **STATE TOTAL** | 81,264 | 16,122 | 19.9 | 10,634 | 14.6 | 5,488 | 66.5 | 2,764 | 33.5 |
| Anna Jaques Hospital | 726 | 131 | 18.0 | 95 | 14.2 | 36 | 61.0 | 23 | 39.0 |
| Baystate Medical Center | 5,182 | 1,014 | 19.6 | 676 | 14.5 | 338 | 63.8 | 192 | 36.2 |
| Berkshire Medical Center | 917 | 147 | 16.0 | 87 | 10.8 | 60 | 53.6 | 52 | 46.4 |
| Beth Israel Deaconess Medical Center | 5,108 | 1,148 | 22.5 | 772 | 17.3 | 376 | 58.1 | 271 | 41.9 |
| Beverly Hospital | 2,633 | 448 | 17.1 | 283 | 12.1 | 165 | 59.8 | 111 | 40.2 |
| Boston Medical Center | 1,542 | 284 | 18.6 | 195 | 13.7 | 89 | 85.6 | 15 | 14.4 |
| Boston Regional Medical Center | 1,254 | 254 | 20.3 | 145 | 13.3 | 109 | 66.5 | 55 | 33.5 |
| Brigham And Women's Hospital | 8,831 | 2,002 | 22.8 | 1,379 | 17.5 | 623 | 68.8 | 282 | 31.2 |
| Brockton Hospital | 947 | 189 | 20.0 | 105 | 12.6 | 84 | 73.0 | 31 | 27.0 |
| Cambridge Hospital | 650 | 107 | 16.5 | 73 | 12.2 | 34 | 68.0 | 16 | 32.0 |
| Cape Cod Hospital | 1,031 | 196 | 19.0 | 113 | 12.7 | 83 | 59.3 | 57 | 40.7 |
| Charlton Memorial Hospital | 1,627 | 314 | 19.3 | 186 | 12.7 | 128 | 80.0 | 32 | 20.0 |
| Cooley Dickinson Hospital | 937 | 177 | 18.9 | 129 | 15.0 | 48 | 62.3 | 29 | 37.7 |
| Deaconess Waltham Hospital | 244 | 41 | 16.8 | 21 | 9.5 | 20 | 87.0 | 3 | 13.0 |
| Emerson Hospital | 1,480 | 294 | 19.9 | 195 | 14.8 | 99 | 61.5 | 62 | 38.5 |
| Fairview Hospital | 181 | 32 | 17.7 | 18 | 11.6 | 14 | 53.8 | 12 | 46.2 |
| Falmouth Hospital | 621 | 157 | 25.3 | 112 | 20.3 | 45 | 66.2 | 23 | 33.8 |
| Franklin Medical Center | 567 | 89 | 15.7 | 47 | 9.3 | 42 | 66.7 | 21 | 33.3 |
| Good Samaritan Medical Center | 1,315 | 251 | 19.1 | 180 | 15.1 | 71 | 59.7 | 48 | 40.3 |
| Hale Hospital | 529 | 73 | 13.8 | 51 | 10.7 | 22 | 43.1 | 29 | 56.9 |
| Harrington Memorial Hospital | 441 | 88 | 20.0 | 55 | 14.2 | 33 | 60.0 | 22 | 40.0 |
| Heywood Hospital | 444 | 75 | 16.9 | 48 | 12.2 | 27 | 54.0 | 23 | 46.0 |
| Holy Family Hospital and Medical Center | 1,132 | 278 | 24.6 | 180 | 18.1 | 98 | 70.0 | 42 | 30.0 |
| Holyoke Hospital | 457 | 94 | 20.6 | 64 | 15.4 | 30 | 73.2 | 11 | 26.8 |
| Jordan Hospital | 819 | 183 | 22.4 | 100 | 14.0 | 83 | 80.6 | 20 | 19.4 |
| Lawrence General Hospital | 1,415 | 228 | 16.1 | 126 | 9.9 | 102 | 74.5 | 35 | 25.5 |
| Leominster Hospital | 1,446 | 253 | 17.5 | 152 | 11.9 | 101 | 61.6 | 63 | 38.4 |
| Lowell General Hospital | 2,328 | 376 | 16.2 | 216 | 10.5 | 160 | 61.1 | 102 | 38.9 |
| Malden Hospital | 469 | 115 | 24.7 | 74 | 17.5 | 41 | 93.2 | 3 | 6.8 |
| Martha's Vineyard Hospital | 129 | 29 | 22.5 | 21 | 18.6 | 8 | 50.0 | 8 | 50.0 |
| Mary Lane Hospital | 194 | 52 | 26.8 | 36 | 21.1 | 16 | 69.6 | 7 | 30.4 |
| Massachusetts General Hospital | 2,266 | 503 | 22.5 | 406 | 19.3 | 97 | 70.8 | 40 | 29.2 |
| Melrose-Wakefield Hospital | 1,307 | 216 | 16.5 | 133 | 11.4 | 83 | 57.6 | 61 | 42.4 |
| Memorial Hospital | 3,982 | 688 | 17.3 | 448 | 12.6 | 240 | 56.2 | 187 | 43.8 |
| Mercy Hospital | 617 | 107 | 17.3 | 66 | 11.7 | 41 | 80.4 | 10 | 19.6 |
| Metrowest Medical Center-Framingham Union Campus | 2,661 | 482 | 18.1 | 371 | 14.9 | 111 | 65.3 | 59 | 34.7 |

## Table B-13A. (cont'd) Caesarean Section Deliveries and Vaginal Births After Caesarean Section (VBACs) by Licensed Maternity Facility, Massachusetts: 1997[1,2,3]

| Facility | Occurrence Births | Total C-Sections | | Primary C-Section | | Repeat C-Section | | VBACs | |
|---|---|---|---|---|---|---|---|---|---|
| | | # | %[4] | # | %[5] | # | %[6] | # | %[7] |
| Milford-Whitinsville Regional Hospital | 576 | 112 | 19.5 | 68 | 13.2 | 44 | 74.6 | 15 | 25.4 |
| Morton Hospital | 703 | 174 | 24.8 | 107 | 17.8 | 67 | 65.0 | 36 | 35.0 |
| Mount Auburn Hospital | 1,207 | 236 | 19.6 | 171 | 15.6 | 65 | 57.0 | 49 | 43.0 |
| Nantucket Cottage Hospital | 72 | 13 | 18.1 | 9 | 13.2 | 4 | 100.0 | 0 | 0.0 |
| New England Medical Center Hospital | 1,588 | 372 | 23.5 | 243 | 16.9 | 129 | 86.0 | 21 | 14.0 |
| Newton Wellesley Hospital | 4,257 | 892 | 21.0 | 652 | 16.4 | 240 | 84.2 | 45 | 15.8 |
| North Adams Regional Hospital | 355 | 97 | 27.3 | 63 | 20.1 | 34 | 81.0 | 8 | 19.0 |
| North Shore Birth Center | 89 | 1 | 1.1 | 1 | 1.1 | 0 | - | 0 | - |
| North Shore Medical Center - Salem Hospital | 1,731 | 343 | 19.8 | 215 | 13.8 | 128 | 73.6 | 46 | 26.4 |
| Norwood Hospital | 994 | 226 | 22.7 | 120 | 14.4 | 106 | 65.8 | 55 | 34.2 |
| Quincy Hospital | 660 | 153 | 23.2 | 96 | 16.4 | 57 | 75.0 | 19 | 25.0 |
| Saint Vincent Hospital | 2,000 | 306 | 15.3 | 204 | 11.5 | 102 | 47.7 | 112 | 52.3 |
| Saints Memorial Medical Ctr.-St. John's Campus | 518 | 88 | 17.0 | 64 | 13.3 | 24 | 63.2 | 14 | 36.8 |
| South Shore Hospital | 3,186 | 627 | 19.7 | 416 | 14.5 | 211 | 67.4 | 102 | 32.6 |
| St. Elizabeth's Medical Center of Boston | 1,682 | 410 | 24.4 | 264 | 17.7 | 146 | 76.4 | 45 | 23.6 |
| St. Luke's Hospital | 1,557 | 338 | 22.0 | 210 | 15.3 | 128 | 79.0 | 34 | 21.0 |
| Sturdy Memorial Hospital | 829 | 178 | 21.5 | 103 | 14.1 | 75 | 78.1 | 21 | 21.9 |
| The Birthplace At Wellesley | 83 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 5 | 100.0 |
| Tobey Hospital | 452 | 73 | 16.2 | 52 | 12.5 | 21 | 58.3 | 15 | 41.7 |
| Winchester Hospital | 2,036 | 366 | 18.0 | 216 | 11.9 | 150 | 70.8 | 62 | 29.2 |
| All Other Hospitals[8] | 9 | 1 | 1.1 | 1 | 11.1 | 0 | - | 0 | - |
| Home births, enroute | 251 | 1 | 0.4 | 1 | 0.4 | 0 | 0.0 | 3 | 100.0 |

[1] See opening narrative for definitions of occurrence and Caesarean births, primary and repeat. The percentages provided in this table are based on occurrence births and may differ from data presented elsewhere in this book which are based on resident births.

[2] A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of women during pregnancy and childbirth.

[3] The percentage of Caesarean births reported is not adjusted for risk factors such as mother's age, birthweight, or complications of labor and delivery, which would Influence the number of procedures in a particular facility. Caution should be used when comparing unadjusted percentages.

[4] Percentages calculated on births with known method of delivery. Percentage of total Caesarean sections = (total Caesarean births/all births) x 100.

[5] Percentage of primary Caesarean sections = (primary Caesarean sections/all births-repeat Caesarean sections-VBACs) x 100.

[6] Percentage of repeat Caesarean sections = (repeat Caesarean sections/(repeat Caesarean sections + VBACs)) x100.

[7] Percentage of VBACs = (VBAC deliveries/(repeat Caesarean sections + VBAC)) x 100.

[8] Includes 2 births which occurred at the Cambridge Birth Center which opened on December 9, 1997.

## Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| **STATE TOTAL** | 81,264 | 80,321 | 5,617 | 5,904 | 425 | 323 |
| Abington | 0 | 194 | 18 | 6 | 1 | 1 |
| Acton | 0 | 245 | 24 | 2 | 0 | 0 |
| Acushnet | 1 | 71 | –[1] | 6 | 0 | 0 |
| Adams | 0 | 92 | 9 | 12 | 0 | 0 |
| Agawam | 0 | 321 | 28 | 14 | 1 | 0 |
| Alford | 0 | 3 | 0 | 1 | 0 | 0 |
| Amesbury | 0 | 222 | 13 | 13 | 0 | 0 |
| Amherst | 2 | 178 | 13 | 13 | 1 | 1 |
| Andover | 0 | 350 | 17 | 2 | 1 | 1 |
| Arlington | 0 | 608 | 36 | 6 | 1 | 1 |
| Ashburnham | 0 | 59 | –[1] | 2 | 1 | 1 |
| Ashby | 0 | 26 | –[1] | 0 | 0 | 0 |
| Ashfield | 0 | 10 | 0 | 0 | 0 | 0 |
| Ashland | 0 | 267 | 16 | 2 | 1 | 1 |
| Athol | 0 | 138 | 13 | 19 | 0 | 0 |
| Attleboro | 831 | 585 | 27 | 36 | 1 | 1 |
| Auburn | 0 | 156 | 12 | 3 | 2 | 2 |
| Avon | 0 | 41 | –[1] | 3 | 0 | 0 |
| Ayer | 1 | 117 | –[1] | 8 | 0 | 0 |
| Barnstable | 1035 | 484 | 28 | 38 | 6 | 4 |
| Barre | 1 | 66 | –[1] | 1 | 0 | 0 |
| Becket | 1 | 19 | –[1] | 0 | 0 | 0 |
| Bedford | 0 | 250 | 11 | 2 | 0 | 0 |
| Belchertown | 0 | 177 | 9 | 5 | 0 | 0 |
| Bellingham | 1 | 220 | 6 | 11 | 0 | 0 |
| Belmont | 0 | 282 | 21 | 2 | 2 | 2 |
| Berkley | 1 | 76 | –[1] | 0 | 0 | 0 |
| Berlin | 0 | 27 | –[1] | 2 | 0 | 0 |
| Bernardston | 0 | 16 | –[1] | 2 | 0 | 0 |
| Beverly | 2,723 | 518 | 37 | 26 | 1 | 1 |
| Billerica | 1 | 565 | 42 | 11 | 1 | 0 |
| Blackstone | 0 | 98 | 15 | 4 | 0 | 0 |
| Blandford | 0 | 7 | –[1] | 1 | 0 | 0 |
| Bolton | 0 | 48 | –[1] | 0 | 0 | 0 |
| Boston | 21,041 | 7,822 | 719 | 840 | 66 | 48 |
| Bourne | 0 | 247 | 17 | 15 | 1 | 1 |
| Boxborough | 0 | 62 | –[1] | 0 | 0 | 0 |
| Boxford | 0 | 97 | 5 | 1 | 0 | 0 |
| Boylston | 0 | 39 | 0 | 1 | 0 | 0 |
| Braintree | 0 | 386 | 23 | 13 | 0 | 0 |
| Brewster | 2 | 68 | –[1] | 2 | 0 | 0 |

# Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Bridgewater | 2 | 285 | 21 | 10 | 1 | 1 |
| Brimfield | 0 | 43 | –[1] | 2 | 0 | 0 |
| Brockton | 2,264 | 1,429 | 136 | 204 | 7 | 5 |
| Brookfield | 0 | 44 | –[1] | 2 | 0 | 0 |
| Brookline | 2 | 599 | 44 | 6 | 1 | 1 |
| Buckland | 1 | 13 | 0 | 0 | 0 | 0 |
| Burlington | 1 | 326 | 19 | 6 | 4 | 3 |
| Cambridge | 1,865 | 1,015 | 80 | 55 | 3 | 1 |
| Canton | 1 | 263 | 19 | 6 | 1 | 0 |
| Carlisle | 0 | 60 | –[1] | 0 | 0 | 0 |
| Carver | 1 | 119 | 8 | 11 | 1 | 1 |
| Charlemont | 0 | 15 | 0 | 2 | 1 | 1 |
| Charlton | 0 | 164 | 6 | 12 | 0 | 0 |
| Chatham | 0 | 44 | –[1] | 3 | 1 | 1 |
| Chelmsford | 2 | 462 | 25 | 3 | 3 | 3 |
| Chelsea | 1 | 619 | 56 | 93 | 3 | 2 |
| Cheshire | 0 | 36 | –[1] | 1 | 0 | 0 |
| Chester | 0 | 11 | –[1] | 0 | 0 | 0 |
| Chesterfield | 1 | 9 | 0 | 0 | 0 | 0 |
| Chicopee | 0 | 552 | 38 | 64 | 4 | 2 |
| Chilmark | 2 | 11 | 0 | 0 | 0 | 0 |
| Clarksburg | 0 | 10 | –[1] | 2 | 0 | 0 |
| Clinton | 1 | 171 | 12 | 17 | 0 | 0 |
| Cohasset | 0 | 78 | –[1] | 0 | 2 | 2 |
| Colrain | 0 | 21 | –[1] | 0 | 0 | 0 |
| Concord | 1,481 | 164 | 5 | 2 | 0 | 0 |
| Conway | 0 | 19 | –[1] | 1 | 0 | 0 |
| Cummington | 0 | 12 | 0 | 2 | 0 | 0 |
| Dalton | 0 | 62 | –[1] | 3 | 3 | 2 |
| Danvers | 1 | 243 | 17 | 4 | 1 | 1 |
| Dartmouth | 0 | 228 | 9 | 11 | 0 | 0 |
| Dedham | 0 | 298 | 20 | 12 | 4 | 4 |
| Deerfield | 0 | 50 | –[1] | 1 | 0 | 0 |
| Dennis | 1 | 131 | 8 | 6 | 0 | 0 |
| Dighton | 0 | 66 | 7 | 3 | 1 | 1 |
| Douglas | 0 | 113 | 8 | 2 | 1 | 1 |
| Dover | 0 | 90 | 8 | 1 | 0 | 0 |
| Dracut | 0 | 387 | 23 | 15 | 0 | 0 |
| Dudley | 0 | 101 | 5 | 8 | 0 | 0 |
| Dunstable | 0 | 45 | –[1] | 0 | 0 | 0 |
| Duxbury | 0 | 174 | 9 | 2 | 0 | 0 |
| East Bridgewater | 0 | 164 | 13 | 3 | 0 | 0 |
| East Brookfield | 0 | 18 | –[1] | 2 | 0 | 0 |
| East Longmeadow | 0 | 162 | 9 | 4 | 0 | 0 |
| Eastham | 0 | 34 | 0 | 3 | 0 | 0 |

## Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Easthampton | 3 | 177 | 14 | 18 | 0 | 0 |
| Easton | 0 | 274 | 18 | 10 | 2 | 2 |
| Edgartown | 1 | 48 | –[1] | 1 | 0 | 0 |
| Egremont | 0 | 7 | 0 | 1 | 0 | 0 |
| Erving | 0 | 16 | –[1] | 3 | 0 | 0 |
| Essex | 0 | 43 | 0 | 2 | 0 | 0 |
| Everett | 0 | 542 | 37 | 26 | 0 | 0 |
| Fairhaven | 1 | 169 | 11 | 10 | 0 | 0 |
| Fall River | 1,627 | 1,109 | 88 | 141 | 6 | 4 |
| Falmouth | 623 | 277 | 15 | 27 | 0 | 0 |
| Fitchburg | 4 | 513 | 44 | 89 | 1 | 1 |
| Florida | 0 | 9 | –[1] | 0 | 0 | 0 |
| Foxborough | 0 | 219 | 10 | 2 | 2 | 1 |
| Framingham | 2,661 | 953 | 93 | 62 | 3 | 3 |
| Franklin | 1 | 530 | 33 | 8 | 1 | 0 |
| Freetown | 0 | 98 | 5 | 8 | 0 | 0 |
| Gardner | 444 | 217 | 16 | 33 | 3 | 2 |
| Gay Head | 1 | 2 | 0 | 0 | 0 | 0 |
| Georgetown | 0 | 106 | –[1] | 1 | 0 | 0 |
| Gill | 0 | 14 | –[1] | 0 | 0 | 0 |
| Gloucester | 2 | 353 | 24 | 27 | 3 | 2 |
| Goshen | 0 | 3 | 0 | 0 | 0 | 0 |
| Gosnold | 0 | 0 | 0 | 0 | 0 | 0 |
| Grafton | 1 | 202 | 14 | 8 | 0 | 0 |
| Granby | 0 | 65 | –[1] | 2 | 0 | 0 |
| Granville | 0 | 16 | 0 | 1 | 0 | 0 |
| Great Barrington | 183 | 76 | 9 | 3 | 0 | 0 |
| Greenfield | 569 | 197 | 8 | 17 | 2 | 1 |
| Groton | 0 | 163 | –[1] | 3 | 1 | 0 |
| Groveland | 0 | 97 | 7 | 1 | 1 | 1 |
| Hadley | 1 | 50 | 0 | 5 | 0 | 0 |
| Halifax | 1 | 89 | 5 | 4 | 2 | 2 |
| Hamilton | 0 | 105 | –[1] | 4 | 0 | 0 |
| Hampden | 0 | 36 | –[1] | 1 | 0 | 0 |
| Hancock | 0 | 7 | 0 | 1 | 0 | 0 |
| Hanover | 1 | 171 | 8 | 2 | 0 | 0 |
| Hanson | 0 | 159 | 7 | 8 | 0 | 0 |
| Hardwick | 0 | 28 | 0 | 4 | 0 | 0 |
| Harvard | 0 | 53 | 0 | 0 | 0 | 0 |
| Harwich | 0 | 88 | 8 | 8 | 1 | 1 |
| Hatfield | 0 | 35 | –[1] | 1 | 0 | 0 |
| Haverhill | 529 | 858 | 63 | 88 | 7 | 6 |
| Hawley | 0 | 6 | 0 | 0 | 0 | 0 |
| Heath | 0 | 4 | 0 | 0 | 0 | 0 |
| Hingham | 1 | 284 | 13 | 2 | 0 | 0 |

# Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Hinsdale | 0 | 27 | 5 | 1 | 0 | 0 |
| Holbrook | 0 | 117 | 8 | 7 | 1 | 0 |
| Holden | 0 | 170 | 14 | 1 | 1 | 0 |
| Holland | 0 | 32 | 6 | 2 | 0 | 0 |
| Holliston | 1 | 175 | 10 | 0 | 0 | 0 |
| Holyoke | 461 | 708 | 57 | 184 | 5 | 4 |
| Hopedale | 0 | 65 | 6 | 0 | 1 | 1 |
| Hopkinton | 0 | 229 | 20 | 3 | 2 | 1 |
| Hubbardston | 0 | 58 | –[1] | 2 | 0 | 0 |
| Hudson | 4 | 237 | 18 | 17 | 3 | 2 |
| Hull | 0 | 161 | 12 | 11 | 3 | 2 |
| Huntington | 0 | 28 | 0 | 3 | 0 | 0 |
| Ipswich | 0 | 129 | 10 | 3 | 0 | 0 |
| Kingston | 0 | 190 | 9 | 5 | 0 | 0 |
| Lakeville | 1 | 131 | 6 | 6 | 0 | 0 |
| Lancaster | 1 | 62 | –[1] | 3 | 0 | 0 |
| Lanesborough | 0 | 27 | –[1] | 2 | 1 | 0 |
| Lawrence | 1,421 | 1,313 | 109 | 289 | 19 | 16 |
| Lee | 0 | 51 | –[1] | 0 | 0 | 0 |
| Leicester | 1 | 120 | 9 | 11 | 1 | 1 |
| Lenox | 0 | 29 | –[1] | 1 | 0 | 0 |
| Leominster | 1,449 | 574 | 46 | 45 | 1 | 1 |
| Leverett | 1 | 8 | 0 | 0 | 0 | 0 |
| Lexington | 1 | 286 | 10 | 3 | 0 | 0 |
| Leyden | 0 | 12 | 0 | 0 | 0 | 0 |
| Lincoln | 1 | 56 | 0 | 0 | 0 | 0 |
| Littleton | 1 | 145 | 7 | 0 | 0 | 0 |
| Longmeadow | 1 | 144 | 8 | 1 | 0 | 0 |
| Lowell | 2,850 | 1,691 | 132 | 281 | 8 | 7 |
| Ludlow | 0 | 165 | 6 | 12 | 0 | 0 |
| Lunenburg | 1 | 104 | 10 | 3 | 0 | 0 |
| Lynn | 0 | 1,356 | 114 | 186 | 17 | 11 |
| Lynnfield | 0 | 115 | –[1] | 1 | 0 | 0 |
| Malden | 469 | 783 | 42 | 34 | 5 | 4 |
| Manchester | 0 | 58 | –[1] | 1 | 0 | 0 |
| Mansfield | 0 | 401 | 26 | 7 | 1 | 1 |
| Marblehead | 0 | 236 | 10 | 1 | 4 | 3 |
| Marion | 0 | 52 | –[1] | 1 | 0 | 0 |
| Marlborough | 0 | 518 | 29 | 31 | 6 | 6 |
| Marshfield | 0 | 353 | 19 | 11 | 2 | 2 |
| Mashpee | 0 | 153 | 13 | 10 | 0 | 0 |
| Mattapoisett | 0 | 53 | 5 | 1 | 0 | 0 |
| Maynard | 0 | 170 | 7 | 6 | 0 | 0 |
| Medfield | 0 | 182 | 13 | 1 | 0 | 0 |
| Medford | 0 | 630 | 39 | 19 | 2 | 2 |

## Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Medway | 0 | 189 | 8 | 4 | 1 | 0 |
| Melrose | 1,307 | 356 | 24 | 7 | 4 | 4 |
| Mendon | 0 | 73 | –[1] | 2 | 0 | 0 |
| Merrimac | 0 | 89 | –[1] | 4 | 0 | 0 |
| Methuen | 1,132 | 555 | 24 | 47 | 2 | 1 |
| Middleborough | 0 | 272 | 23 | 14 | 0 | 0 |
| Middlefield | 0 | 3 | 0 | 0 | 0 | 0 |
| Middleton | 0 | 72 | –[1] | 0 | 0 | 0 |
| Milford | 578 | 370 | 22 | 17 | 0 | 0 |
| Millbury | 0 | 147 | 18 | 7 | 0 | 0 |
| Millis | 1 | 126 | –[1] | 2 | 0 | 0 |
| Millville | 0 | 43 | –[1] | 3 | 0 | 0 |
| Milton | 0 | 332 | 12 | 6 | 2 | 1 |
| Monroe | 0 | 0 | 0 | 0 | 0 | 0 |
| Monson | 0 | 93 | 8 | 10 | 0 | 0 |
| Montague | 0 | 87 | –[1] | 12 | 1 | 0 |
| Monterey | 0 | 4 | –[1] | 0 | 0 | 0 |
| Montgomery | 0 | 6 | 0 | 1 | 0 | 0 |
| Mount Washington | 0 | 4 | 0 | 0 | 0 | 0 |
| Nahant | 0 | 36 | –[1] | 0 | 0 | 0 |
| Nantucket | 75 | 110 | 7 | 1 | 1 | 1 |
| Natick | 1 | 510 | 33 | 9 | 3 | 2 |
| Needham | 1 | 391 | 17 | 2 | 0 | 0 |
| New Ashford | 0 | 2 | 0 | 0 | 0 | 0 |
| New Bedford | 1,564 | 1,229 | 83 | 224 | 6 | 3 |
| New Braintree | 0 | 10 | –[1] | 0 | 0 | 0 |
| New Marlborough | 0 | 8 | 0 | 0 | 0 | 0 |
| New Salem | 0 | 10 | 0 | 1 | 0 | 0 |
| Newbury | 0 | 73 | –[1] | 0 | 0 | 0 |
| Newburyport | 726 | 197 | 13 | 9 | 1 | 1 |
| Newton | 4,262 | 832 | 38 | 6 | 6 | 5 |
| Norfolk | 0 | 152 | 12 | 1 | 0 | 0 |
| North Adams | 355 | 174 | 15 | 28 | 2 | 1 |
| North Andover | 0 | 345 | 22 | 7 | 2 | 1 |
| North Attleboro | 2 | 386 | 28 | 14 | 2 | 0 |
| North Brookfield | 0 | 46 | –[1] | 6 | 0 | 0 |
| North Reading | 0 | 206 | 4 | 0 | 0 | 0 |
| Northampton | 940 | 240 | 21 | 19 | 0 | 0 |
| Northborough | 0 | 193 | 10 | 3 | 2 | 2 |
| Northbridge | 1 | 227 | 10 | 12 | 0 | 0 |
| Northfield | 0 | 28 | 0 | 1 | 0 | 0 |
| Norton | 1 | 253 | 15 | 11 | 2 | 2 |
| Norwell | 0 | 95 | –[1] | 1 | 0 | 0 |
| Norwood | 997 | 333 | 22 | 8 | 5 | 5 |
| Oak Bluffs | 129 | 43 | –[1] | 1 | 0 | 0 |

## Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Oakham | 0 | 17 | –[1] | 2 | 0 | 0 |
| Orange | 1 | 98 | –[1] | 13 | 0 | 0 |
| Orleans | 0 | 28 | –[1] | 0 | 0 | 0 |
| Otis | 0 | 9 | 0 | 0 | 0 | 0 |
| Oxford | 1 | 165 | 10 | 17 | 1 | 1 |
| Palmer | 2 | 134 | 11 | 15 | 1 | 1 |
| Paxton | 0 | 40 | 0 | 2 | 0 | 0 |
| Peabody | 1 | 569 | 31 | 12 | 4 | 2 |
| Pelham | 1 | 12 | 0 | 0 | 0 | 0 |
| Pembroke | 0 | 296 | 19 | 8 | 3 | 2 |
| Pepperell | 1 | 150 | 11 | 4 | 0 | 0 |
| Peru | 0 | 8 | –[1] | 0 | 0 | 0 |
| Petersham | 0 | 10 | –[1] | 0 | 0 | 0 |
| Phillipston | 1 | 13 | –[1] | 1 | 0 | 0 |
| Pittsfield | 917 | 535 | 47 | 59 | 3 | 3 |
| Plainfield | 0 | 4 | 0 | 1 | 0 | 0 |
| Plainville | 0 | 95 | 5 | 1 | 0 | 0 |
| Plymouth | 823 | 677 | 42 | 38 | 4 | 4 |
| Plympton | 0 | 30 | –[1] | 3 | 0 | 0 |
| Princeton | 0 | 26 | –[1] | 0 | 0 | 0 |
| Provincetown | 0 | 17 | –[1] | 4 | 1 | 0 |
| Quincy | 662 | 1,077 | 69 | 38 | 8 | 6 |
| Randolph | 0 | 378 | 30 | 13 | 0 | 0 |
| Raynham | 0 | 142 | 7 | 7 | 1 | 1 |
| Reading | 0 | 347 | 19 | 2 | 2 | 2 |
| Rehoboth | 1 | 98 | –[1] | 2 | 0 | 0 |
| Revere | 0 | 589 | 46 | 48 | 2 | 1 |
| Richmond | 0 | 12 | 0 | 1 | 0 | 0 |
| Rochester | 0 | 36 | –[1] | 2 | 0 | 0 |
| Rockland | 0 | 246 | 19 | 11 | 4 | 3 |
| Rockport | 0 | 85 | 9 | 5 | 0 | 0 |
| Rowe | 0 | 6 | 0 | 0 | 0 | 0 |
| Rowley | 0 | 76 | 6 | 4 | 1 | 1 |
| Royalston | 0 | 10 | 0 | 1 | 0 | 0 |
| Russell | 0 | 24 | –[1] | 1 | 0 | 0 |
| Rutland | 1 | 94 | 7 | 1 | 1 | 1 |
| Salem | 1,733 | 475 | 40 | 35 | 3 | 2 |
| Salisbury | 0 | 85 | 8 | 9 | 0 | 0 |
| Sandisfield | 1 | 8 | –[1] | 0 | 0 | 0 |
| Sandwich | 1 | 253 | 12 | 4 | 0 | 0 |
| Saugus | 0 | 276 | 15 | 5 | 0 | 0 |
| Savoy | 0 | 6 | 0 | 1 | 0 | 0 |
| Scituate | 3 | 229 | 13 | 2 | 0 | 0 |
| Seekonk | 3 | 129 | 7 | 2 | 1 | 1 |
| Sharon | 1 | 238 | 20 | 1 | 0 | 0 |

## Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Sheffield | 1 | 42 | –[1] | 1 | 0 | 0 |
| Shelburne | 0 | 21 | –[1] | 2 | 0 | 0 |
| Sherborn | 0 | 44 | 0 | 1 | 0 | 0 |
| Shirley | 0 | 64 | –[1] | 7 | 0 | 0 |
| Shrewsbury | 0 | 445 | 30 | 5 | 4 | 4 |
| Shutesbury | 1 | 17 | 0 | 0 | 0 | 0 |
| Somerset | 0 | 113 | 11 | 6 | 2 | 1 |
| Somerville | 5 | 925 | 58 | 58 | 1 | 1 |
| South Hadley | 1 | 157 | 11 | 11 | 0 | 0 |
| Southampton | 0 | 59 | –[1] | 0 | 0 | 0 |
| Southborough | 0 | 151 | 11 | 3 | 2 | 2 |
| Southbridge | 441 | 243 | 13 | 48 | 1 | 0 |
| Southwick | 1 | 101 | 5 | 3 | 1 | 1 |
| Spencer | 0 | 133 | 7 | 14 | 0 | 0 |
| Springfield | 5,814 | 2,327 | 225 | 494 | 23 | 22 |
| Sterling | 2 | 85 | 7 | 2 | 0 | 0 |
| Stockbridge | 0 | 7 | 0 | 1 | 0 | 0 |
| Stoneham | 1,254 | 262 | 17 | 5 | 5 | 5 |
| Stoughton | 0 | 305 | 24 | 23 | 1 | 1 |
| Stow | 0 | 90 | 7 | 1 | 0 | 0 |
| Sturbridge | 2 | 86 | –[1] | 5 | 0 | 0 |
| Sudbury | 0 | 214 | 11 | 3 | 0 | 0 |
| Sunderland | 2 | 36 | - | 2 | 0 | 0 |
| Sutton | 1 | 104 | 7 | 1 | 0 | 0 |
| Swampscott | 0 | 173 | 13 | 2 | 0 | 0 |
| Swansea | 0 | 145 | 8 | 13 | 1 | 1 |
| Taunton | 705 | 771 | 42 | 70 | 4 | 2 |
| Templeton | 0 | 85 | 5 | 7 | 0 | 0 |
| Tewksbury | 1 | 425 | 28 | 9 | 2 | 1 |
| Tisbury | 1 | 27 | 0 | 2 | 0 | 0 |
| Tolland | 0 | 4 | 0 | 0 | 0 | 0 |
| Topsfield | 0 | 59 | –[1] | 0 | 1 | 1 |
| Townsend | 1 | 106 | 8 | 5 | 1 | 1 |
| Truro | 0 | 13 | –[1] | 0 | 0 | 0 |
| Tyngsborough | 1 | 183 | 13 | 9 | 0 | 0 |
| Tyringham | 0 | 2 | 0 | 0 | 0 | 0 |
| Upton | 1 | 120 | 6 | 2 | 2 | 2 |
| Uxbridge | 0 | 175 | 10 | 7 | 0 | 0 |
| Wakefield | 0 | 339 | 15 | 4 | 1 | 0 |
| Wales | 0 | 17 | –[1] | 0 | 0 | 0 |
| Walpole | 0 | 285 | 12 | 4 | 1 | 1 |
| Waltham | 245 | 666 | 33 | 30 | 1 | 1 |
| Ware | 194 | 96 | 10 | 13 | 0 | 0 |
| Wareham | 452 | 236 | 13 | 26 | 0 | 0 |
| Warren | 0 | 47 | 8 | 7 | 0 | 0 |

## Table 14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts Municipalities, 1997

| Community | Occurrence Births | Resident Births | Low Birthweight | Teen Births, < 20 years | Infant Deaths | Neonatal Deaths |
|---|---|---|---|---|---|---|
| Warwick | 0 | 9 | 0 | 3 | 0 | 0 |
| Washington | 0 | 7 | 0 | 1 | 0 | 0 |
| Watertown | 0 | 378 | 28 | 0 | 1 | 1 |
| Wayland | 0 | 186 | 14 | 1 | 1 | 1 |
| Webster | 1 | 200 | 16 | 18 | 0 | 0 |
| Wellesley | 83 | 327 | 19 | 2 | 1 | 1 |
| Wellfleet | 0 | 17 | 0 | 1 | 0 | 0 |
| Wendell | 0 | 8 | –[1] | 0 | 1 | 0 |
| Wenham | 0 | 29 | –[1] | 0 | 0 | 0 |
| West Boylston | 0 | 70 | –[1] | 4 | 0 | 0 |
| West Bridgewater | 0 | 55 | –[1] | 3 | 0 | 0 |
| West Brookfield | 0 | 37 | 5 | 3 | 0 | 0 |
| West Newbury | 0 | 54 | 0 | 1 | 0 | 0 |
| West Springfield | 0 | 324 | 24 | 29 | 3 | 2 |
| West Stockbridge | 1 | 9 | 0 | 0 | 0 | 0 |
| West Tisbury | 0 | 23 | 0 | 0 | 0 | 0 |
| Westborough | 1 | 220 | 20 | 3 | 3 | 2 |
| Westfield | 4 | 432 | 22 | 41 | 2 | 1 |
| Westford | 0 | 336 | 20 | 4 | 2 | 2 |
| Westhampton | 1 | 18 | 0 | 0 | 0 | 0 |
| Westminster | 0 | 79 | 7 | 3 | 0 | 0 |
| Weston | 0 | 136 | 8 | 0 | 0 | 0 |
| Westport | 0 | 142 | 13 | 6 | 2 | 1 |
| Westwood | 0 | 179 | 11 | 2 | 1 | 1 |
| Weymouth | 3,188 | 763 | 64 | 32 | 1 | 1 |
| Whately | 1 | 20 | –[1] | 1 | 0 | 0 |
| Whitman | 0 | 188 | 11 | 7 | 0 | 0 |
| Wilbraham | 0 | 99 | 6 | 1 | 0 | 0 |
| Williamsburg | 1 | 17 | 0 | 0 | 0 | 0 |
| Williamstown | 0 | 49 | 6 | 1 | 0 | 0 |
| Wilmington | 0 | 334 | 23 | 7 | 2 | 2 |
| Winchendon | 2 | 125 | 13 | 29 | 0 | 0 |
| Winchester | 2,039 | 244 | 10 | 4 | 0 | 0 |
| Windsor | 0 | 10 | 0 | 0 | 0 | 0 |
| Winthrop | 1 | 207 | 11 | 9 | 0 | 0 |
| Woburn | 1 | 483 | 37 | 14 | 1 | 0 |
| Worcester | 6,001 | 2330 | 204 | 320 | 19 | 13 |
| Worthington | 0 | 16 | 0 | 1 | 0 | 0 |
| Wrentham | 0 | 147 | 13 | 4 | 1 | 0 |
| Yarmouth | 0 | 218 | 13 | 21 | 1 | 1 |

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[1] Values of 1-4 for medical characteristics of communities with less than 200 births are suppressed based on Guidelines For Release Of Birth Data, Bureau of Health Statistics, Research and Evaluation.

NOTE: There is one occurrence birth with birth city residence code missing.

## Table 14B. Birth Characteristics, Occurrence and Resident Births and Infant Deaths by County, Massachusetts: 1997

| | Occurrence Births | Resident Births | | | Deaths | |
|---|---|---|---|---|---|---|
| County Name | | Number | Low Birthweight | Teen (< 20 years) | Infant | Neonatal |
| **STATE TOTAL** | 81,264 | 80,321 | 5,617 | 5,904 | 425 | 323 |
| Barnstable | 1,662 | 2,072 | 122 | 142 | 11 | 8 |
| Berkshire | 1,459 | 1,351 | 113 | 121 | 9 | 6 |
| Bristol | 4,737 | 6,485 | 414 | 587 | 32 | 21 |
| Dukes | 134 | 154 | --[1] | 4 | 0 | 0 |
| Essex | 8,268 | 9,447 | 634 | 790 | 68 | 51 |
| Franklin | 576 | 741 | 30 | 61 | 5 | 2 |
| Hampden | 6,283 | 5,758 | 465 | 881 | 40 | 33 |
| Hampshire | 1,145 | 1,356 | 87 | 94 | 1 | 1 |
| Middlesex | 18,457 | 19,275 | 1,225 | 789 | 78 | 64 |
| Nantucket | 75 | 110 | 7 | 1 | 1 | 1 |
| Norfolk | 4,938 | 8,340 | 528 | 213 | 34 | 25 |
| Plymouth | 3,549 | 6,368 | 440 | 402 | 28 | 23 |
| Suffolk | 21,043 | 9,237 | 832 | 990 | 71 | 51 |
| Worcester | 8,937 | 9,627 | 716 | 829 | 47 | 37 |

[1] Values of 1-4 for medical characteristics of communities with less than 200 births are suppressed based on *Guidelines For Release Of Birth Data*, Bureau of Health Statistics, Research and Evaluation.

NOTE: There is one occurrence birth with birth city residence code missing.

## Table 14C. Birth Characteristics, Occurrence and Resident Births and Infant Deaths, Massachusetts Community Health Network Areas (CHNAs): 1997

| Community Health Network Area | Occurrence Births | Resident Births | | | Deaths | |
|---|---|---|---|---|---|---|
| | | Number | Low Birthweight | Teen (< 20 years) | Infant | Neonatal |
| **STATE TOTAL** | 81,264 | 80,321 | 5,617 | 5,904 | 425 | 323 |
| Community Health Network of Berkshire | 1,459 | 1351 | 113 | 121 | 9 | 6 |
| Upper Valley Health Web (Franklin County) | 577 | 912 | 46 | 82 | 5 | 2 |
| Partnership for Health in Hampshire County (Northampton) | 1,145 | 1,328 | 87 | 91 | 1 | 1 |
| The Community Health Connection (Springfield) | 465 | 1,896 | 124 | 304 | 11 | 7 |
| Greater Southbridge Community Health Network | 5,818 | 3,798 | 330 | 576 | 29 | 26 |
| Community Partners for Health (Milford) | 445 | 1,376 | 91 | 146 | 2 | 1 |
| Community Health Network of Greater Metro West (Framingham) | 583 | 2,327 | 138 | 73 | 6 | 4 |
| Community Wellness Coalition (Worcester) | 2,669 | 5,363 | 366 | 160 | 30 | 24 |
| Fitchburg/Gardner Community Health Network | 6,003 | 3,719 | 302 | 362 | 27 | 20 |
| Greater Lowell Community Health Network | 1,909 | 3,127 | 215 | 272 | 9 | 7 |
| Greater Lawrence Community Health Network | 2,855 | 4,094 | 285 | 332 | 16 | 13 |
| Greater Haverhill Community Health Network | 2,553 | 2,635 | 174 | 345 | 24 | 19 |
| Greater Beverly/Gloucester Community Health Network | 1,255 | 1,954 | 126 | 131 | 10 | 9 |
| North Shore Community Health Network | 2,725 | 1,379 | 91 | 68 | 5 | 4 |
| Greater Woburn/Concord/Littleton Community Health Network | 1,735 | 3,479 | 243 | 246 | 29 | 19 |
| North Suburban Health Alliance (Medford/Malden/Melrose) | 3,525 | 2,655 | 154 | 40 | 7 | 5 |
| Greater Cambridge/Somerville Community Health Network | 3,030 | 3,465 | 197 | 97 | 19 | 17 |
| West Suburban Health Network (Newton/Waltham) | 1,870 | 3,208 | 223 | 121 | 8 | 6 |
| Alliance for Community Health (Boston/Chelsea/Revere/Winthrop) | 4,591 | 2,919 | 154 | 55 | 13 | 12 |
| Blue Hills Community Health Alliance (Quincy) | 21,045 | 9,836 | 876 | 996 | 72 | 52 |
| Four (For) Communities (Holyoke) | 4,853 | 4,617 | 302 | 133 | 22 | 17 |
| Greater Brockton Community Health Network | 2,266 | 3,052 | 253 | 276 | 13 | 10 |
| South Shore Community Partners in Prevention (Plymouth) | 826 | 2,504 | 147 | 103 | 16 | 14 |
| Health & Education Response (Attleboro/Taunton) | 1,545 | 3,310 | 194 | 172 | 13 | 9 |
| Partners for a Healthier Community (Fall River) | 1,627 | 1,509 | 120 | 166 | 11 | 7 |
| Greater New Bedford Community Health Network | 2,018 | 2,172 | 133 | 289 | 6 | 3 |
| Cape and Islands Community Health Network | 1,871 | 2,336 | 133 | 147 | 12 | 9 |

NOTE: There is one occurrence birth with birth city residence code missing.

# DEATHS

## SECTION C

## DEATHS

Massachusetts resident deaths decreased from 1996 (55,187 deaths) to 1997 (54,634 deaths). However, the 1997 death rate of 8.8 per 1,000 population varied only slightly from the 1996 death rate of 8.9. As with live births, Massachusetts resident deaths include all deaths to Massachusetts residents regardless of the state in which the deaths occurred. Most data presented in this section are resident data. Occurrence data are used only for medical examiner data.

### DEATHS BY RACE/ETHNICITY

From 1996 to 1997, the number of deaths by race/ethnicity remained relatively constant with white non-Hispanic residents comprising 94.1% of total deaths in Massachusetts. Black non-Hispanic deaths totaled 3.4% of total deaths, Hispanic deaths 1.4%, Asian deaths 0.7%, other and unknown race deaths 0.4%.

Prior to 1989, only a race question was included on death certificates. A separate item on Hispanic origin was added to the death record beginning January 1, 1989. This item asks whether the decedent was of Hispanic origin. If answered affirmatively, then specific Hispanic origin (e.g., Puerto Rican, Dominican, Cuban, etc.) is requested.

### DEATHS BY AGE

Persons 75 years of age or older accounted for 61.4% of all resident deaths. The percent of deaths to residents in this age group vary widely by sex and race/ethnicity.

| SEX | RACE | % OF DEATHS UNDER AGE 75 | % OF DEATHS 75 YEARS AND OLDER |
|---|---|---|---|
| MALE | WHITE NON-HISPANIC | 47.0 | 53.0 |
| | BLACK NON-HISPANIC | 75.4 | 24.6 |
| | HISPANIC | 84.1 | 15.9 |
| | ASIAN | 64.5 | 35.5 |
| | OTHER/UNKNOWN | 50.0 | 50.0 |
| | TOTAL | 48.9 | 51.1 |
| FEMALE | WHITE NON-HISPANIC | 28.0 | 72.0 |
| | BLACK NON-HISPANIC | 56.9 | 43.1 |
| | HISPANIC | 74.5 | 25.5 |
| | ASIAN | 53.6 | 46.4 |
| | OTHER/UNKNOWN | 40.4 | 59.6 |
| | TOTAL | 29.6 | 70.4 |
| TOTAL | WHITE NON-HISPANIC | 36.8 | 63.2 |
| | BLACK NON-HISPANIC | 66.4 | 33.6 |
| | HISPANIC | 80.3 | 19.7 |
| | ASIAN | 59.1 | 40.9 |
| | OTHER/UNKNOWN | 45.8 | 54.2 |
| | TOTAL | 38.6 | 61.4 |

## DEATHS BY PLACE OF OCCURRENCE

Between 1996 and 1997, there was little variation in the sites where deaths occurred. The data are presented below:

| SITE | % OF DEATHS 1997 | % OF DEATHS 1996 |
|---|---|---|
| HOSPITAL | 49.3 | 48.0 |
| NURSING OR REST HOME | 29.2 | 28.1 |
| AT HOME | 20.3 | 20.3 |
| EN ROUTE TO HOSPITAL OR DEAD ON ARRIVAL | 0.0 | 2.2 |
| OTHER AND UNKNOWN[1] | 1.2 | 1.4 |
| TOTAL | 100.0 | 100.0 |

## DEATHS BY CAUSE

Cause of death statistics in this report are based on the Ninth Revision of the International Classification of Diseases (ICD-9). The methodology of coding cause of death from death certificates is consistent nationally, using the Automated Classification of Medical Entities (ACME), developed by the National Center for Health Statistics (NCHS). The ACME system requires every disease or condition mentioned on the record to be coded. The underlying cause is then selected by a computer program which incorporates the ICD-9 rules and conventions. Cause of death information in this report is based on underlying cause, except where otherwise noted.

The leading causes of death differed markedly by race and ethnicity in 1997, as in previous years. Nine of the ten leading causes of death for whites were chronic conditions (e.g., heart disease, cancer, stroke, respiratory illness, and diabetes) which usually afflict older people. The leading causes of death for blacks included AIDS/HIV-related diseases and homicide, which occur more frequently among younger people. For Asians, motor vehicle-related injuries and suicide were among the top ten leading causes of death. For Hispanics, AIDS/HIV-related diseases, perinatal conditions, homicide and chronic liver disease were among the leading causes of death in 1997.

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[1] Other and Unknown includes prison or other institutions and all other places.

| White |  |  | Black |  |  | Hispanic[2] |  |  |
|---|---|---|---|---|---|---|---|---|
| Cause | # | % | Cause | # | % | Cause | # | % |
| Heart disease | 15,918 | 30.5 | Cancer | 497 | 24.4 | Heart disease | 148 | 19.8 |
| Cancer | 13,045 | 25.0 | Heart disease | 482 | 23.7 | Cancer | 129 | 17.2 |
| Stroke | 3,264 | 6.3 | Stroke | 104 | 5.1 | AIDS/HIV-related diseases | 47 | 6.3 |
| Pneumonia & Influenza | 2,583 | 4.9 | Diabetes | 92 | 4.5 | Diabetes | 38 | 5.1 |
| COPD[3] | 2,380 | 4.6 | AIDS/HIV-related diseases | 74 | 3.6 | Perinatal conditions | 37 | 4.9 |
| Diabetes | 1,256 | 2.4 | Pneumonia & Influenza | 65 | 3.2 | Stroke | 33 | 4.4 |
| Nephritis | 886 | 1.7 | Nephritis | 48 | 2.4 | Pneumonia & Influenza | 25 | 3.3 |
| Unintentional injury[4] | 741 | 1.4 | Septicemia | 44 | 2.2 | Homicide | 25 | 3.3 |
| Septicemia | 653 | 1.3 | COPD | 42 | 2.1 | Unintentional injury | 21 | 2.8 |
| Other artery diseases | 649 | 1.2 | Homicide | 42 | 2.1 | Chronic liver disease | 20 | 2.7 |
| All other causes[5] | 10,771 | 20.7 | All other causes | 543 | 26.7 | All other causes | 226 | 30.2 |
| Total | 52,146 | 100.0 | Total | 2,033 | 100.0 | Total | 749 | 100.0 |

## ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

The Ninth Revision of the International Classification of Diseases was developed before the identification of AIDS. Classification of this disease and related diseases has evolved since 1981. The deaths presented in Table C-11 and Table C-12 were coded using the most current schedule, developed in 1987. Therefore, comparison data prior to 1987 are not available.

In 1997, 242 Massachusetts residents died from AIDS and HIV-related illnesses. This represents a dramatic 60.3% decrease from 1996 and a 74.2% reduction in the past two years. The marked decline in the number of deaths from AIDS and HIV-related diseases from 1996 to 1997 is due in large part to improved treatment efforts that have resulted in increased longevity.

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[2] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

[3] Chronic Obstructive Pulmonary Disease.

[4] Excludes motor vehicle injuries.

[5] All Other Causes includes intentional and motor vehicle injuries and all other causes not specifically mentioned above.

## DEATHS CERTIFIED BY MEDICAL EXAMINERS

The total number of deaths certified by medical examiners increased from 3,974 in 1996 to 3,989 in 1997. Of the deaths certified by medical examiners, 49.5% were reported as a result of natural causes. The percentage of deaths due to natural causes (i.e., non-injury related causes) certified by medical examiners varies widely by county, from a high of 80.0% in Nantucket County to a low of 41.5% in Suffolk County. Hampshire County had the greatest percentage of deaths (20.2%) that were referred to medical examiners, while the highest number of such deaths was in Middlesex County with 1,774 deaths (16.7%).

## COMMUNITY HEALTH NETWORK AREAS (CHNA)

The Department of Public Health, in collaboration with health service providers, coalition members, and other interested citizens, has designated 27 geographic areas for community health planning. It is the Department's intention to foster in each of these areas the development of Community Health Networks--consortia of health care providers, human service agencies, schools, churches, youth, parents, elders, advocacy groups, and individual consumers--to address the health needs of the community. These community coalitions will participate in monitoring outcomes and the progress of strategies and responses to those health needs. The data published in this edition reflect the new definitions of CHNAs instituted in January 1997.

A Community Health Network Area (CHNA) is defined as an aggregation of cities and towns. (The city of Boston constitutes its own Community Health Network Area.) It is hoped that the Networks will mobilize around key health issues impacting the community, promote prevention efforts, enhance access to health care, provide opportunities for more collaboration among agencies, and create a client-centered, outcome-oriented health service delivery system. Community Health Networks will also promote efficiency in service delivery by working to reduce duplication and overlap, and by identifying gaps in service.

## DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

### AGE-ADJUSTED RATE

A procedure for adjusting rates, designed to minimize the effects of differences in age distribution when comparing rates for different populations. This procedure is accomplished by the computational process known as age standardization, whereby mortality statistics are adjusted to a reference population. For this publication, the reference population is the 1940 US population, the same as used by the National Center for Health Statistics. The result of the process is a summary index that can be used to compare rates of different populations throughout the nation and over time.

### CAUSE OF DEATH

The disease or injury that initiated the series of events leading to death, or the circumstances of the unintentional or intentional injury that resulted in the death.

## DEATH CERTIFICATE

A vital record signed by a licensed physician that includes cause of death, decedent's name, sex, birth date, place of residence, and place of occurrence.

## INTERNATIONAL CLASSIFICATION OF DISEASES, NINTH REVISION

The International Classification of Disease (ICD) classifies mortality information for statistical purposes. The ICD was first used in 1900 and has since been revised about every 10 years. The Ninth Revision, published in 1977, is used to code mortality data beginning with 1979.

## MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Department of Public Health.

## OCCURRENCE DEATH

Occurrence deaths include all deaths that occur within the state, including deaths of non-residents. An interstate exchange agreement among the 50 states and Canada provides for exchanges of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

## RACE

For death records, race is provided by the death record informant (for example, spouse or next of kin).

## RESIDENT DEATH

The death of a person whose usual place of residence or permanent address (as reported by the informant) is in one of the 351 cities or towns of Massachusetts, regardless of where the death took place. Unless otherwise noted, all data in this publication are resident data. An interstate exchange agreement among the 50 states, Canada, Puerto Rico, Guam, the Virgin Islands, and the District of Columbia provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

## UNDERLYING CAUSE OF DEATH

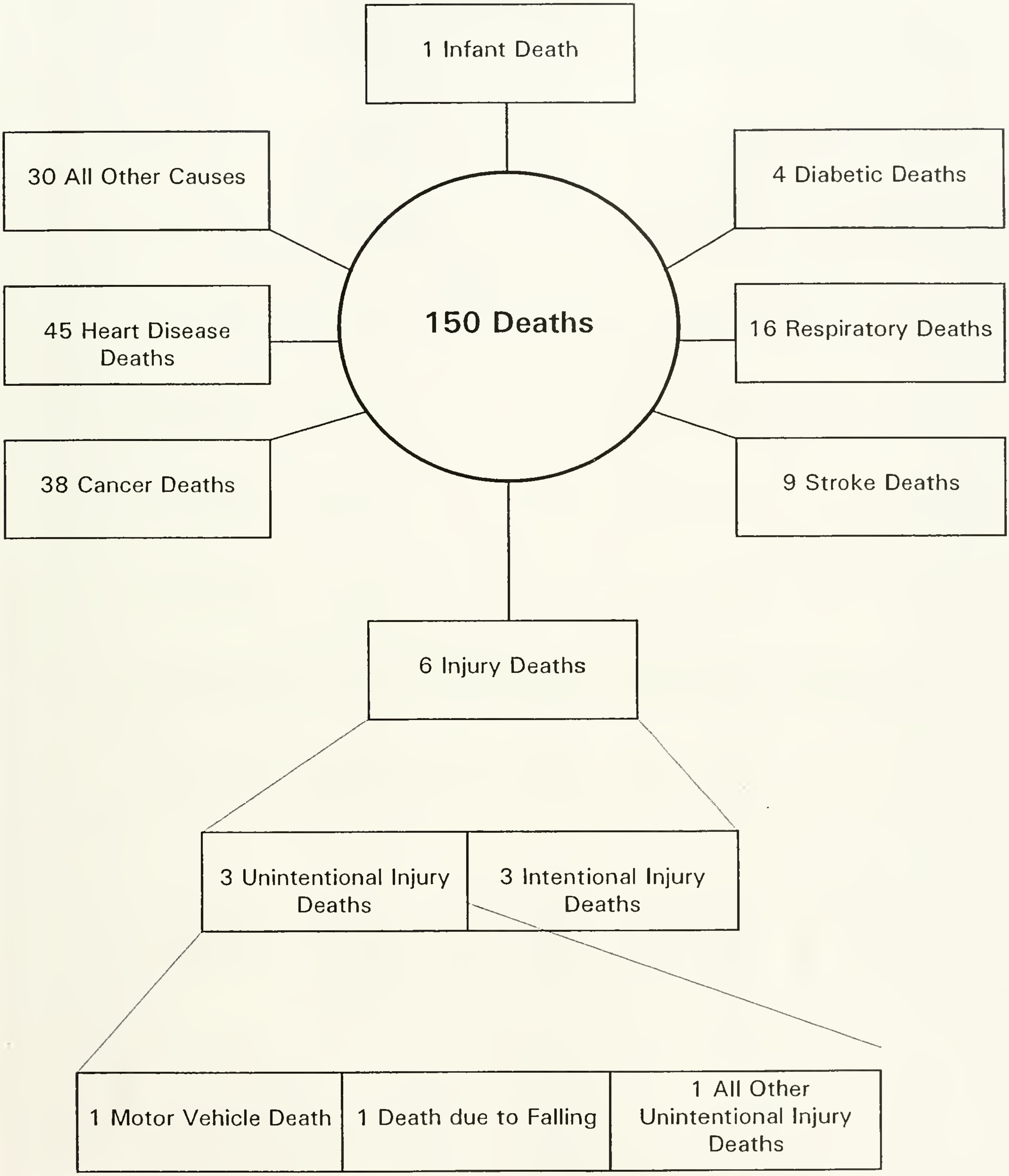
The underlying cause of death is: 1.) the disease or injury that initiated the series of events leading to death, or 2.) the circumstances of the unintentional or intentional injury that resulted in the death. See Death Certificate.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

| | |
|---|---|
| AGE-SPECIFIC DEATH RATE | $\frac{\text{Number of Resident Deaths in Specific Age Group}}{\text{Total Population of Specific Age Group}} \times 100,000$ |
| CAUSE-SPECIFIC DEATH RATE | $\frac{\text{Number of Resident Deaths for a Specific Cause}}{\text{Total Population}} \times 100,000$ |
| CRUDE DEATH RATE | $\frac{\text{Number of Resident Deaths In A Year}}{\text{Total Population}} \times 100,000$ |

Figure C-1

Every day in 1997 residents of Massachusetts experienced an average of:



## Table C-1. Trends in Mortality Characteristics[1,2], Massachusetts: 1980, 1985, 1990 - 1997

| Year | | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Resident deaths | Number | 54,934 | 55,597 | 53,008 | 53,010 | 53,804 | 55,557 | 54,914 | 55,296 | 55,187 | 54,634 |
| | Crude rate[3,4,5] | 957.5 | 946.0 | 881.0 | 877.5 | 886.6 | 910.1 | 893.8 | 895.9 | 889.6 | 876.4 |
| | Age-adjusted rate[6] | 550.7 | 523.7 | 471.7 | 470.6 | 472.4 | 472.4 | 463.9 | 455.4 | 444.1 | 431.3 |
| Race of decedent[7] | | | | | | | | | | | |
| White | Number | 53,251 | 53,580 | 50,779 | 50,814 | 51,525 | 53,182 | 52,465 | 52,721 | 52,720 | 52,146 |
| | Percent | 96.9 | 96.4 | 95.8 | 95.8 | 95.8 | 95.7 | 95.5 | 95.3 | 95.5 | 95.4 |
| | Age-adjusted rate | 549.1 | 498.9 | 465.6 | 465.8 | 467.5 | 467.3 | 458.7 | 448.6 | 439.5 | 426.5 |
| Black | Number | 1,508 | 1,779 | 1,879 | 1,887 | 1,957 | 1,969 | 2079 | 2,136 | 2,025 | 2,033 |
| | Percent | 2.8 | 3.2 | 3.5 | 3.6 | 3.6 | 3.5 | 3.8 | 3.9 | 3.7 | 3.7 |
| | Age-adjusted rate | 932.6 | 761.1 | 628.2 | 608.7 | 630.7 | 620.0 | 638.0 | 649.6 | 600.8 | 598.0 |
| Asian/Other | Number | 141 | 214 | 341 | 303 | 319 | 394 | 368 | 438 | 433 | 445 |
| | Percent | 0.3 | 0.4 | 0.6 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 |
| Unknown | Number | 34 | 24 | 9 | 5 | 3 | 12 | 2 | 1 | 9 | 10 |
| | Percent | - | - | - | - | - | - | - | - | - | - |
| Sex of decedent [8] | | | | | | | | | | | |
| Female | Number | 27,563 | 28,367 | 27,490 | 27,550 | 27,770 | 29,109 | 28,733 | 29,262 | 29,152 | 29,261 |
| | Age-adjusted rate | 377.9 | 362.0 | 360.0 | 360.6 | 361.2 | 364.5 | 359.9 | 355.9 | 346.0 | 344.6 |
| Male | Number | 27,369 | 27,230 | 25,518 | 25,460 | 26,034 | 26,448 | 26,181 | 26,034 | 26.035 | 25,373 |
| | Age-adjusted rate | 663.6 | 627.5 | 618.5 | 616.2 | 618.1 | 611.8 | 596.8 | 581.2 | 568.3 | 541.6 |
| Age of decedent [8] | | | | | | | | | | | |
| <1 year | Number | 748 | 746 | 649 | 576 | 569 | 523 | 499 | 419 | 403 | 425 |
| 1-14 years | Number | 297 | 246 | 205 | 207 | 225 | 239 | 192 | 204 | 197 | 174 |
| 15-24 years | Number | 940 | 763 | 586 | 538 | 470 | 464 | 473 | 452 | 434 | 422 |
| 25-44 years | Number | 2,117 | 2,303 | 2,682 | 2,912 | 3,062 | 3,055 | 3,210 | 3,196 | 2,720 | 2,348 |
| 45-64 years | Number | 10,504 | 9,691 | 8,138 | 7,877 | 7,973 | 7,920 | 7,766 | 7,611 | 7,477 | 7,416 |
| 65+ years | Number | 40,326 | 41,843 | 40,742 | 40,894 | 41,503 | 43,349 | 42,769 | 43,409 | 43,950 | 43,847 |

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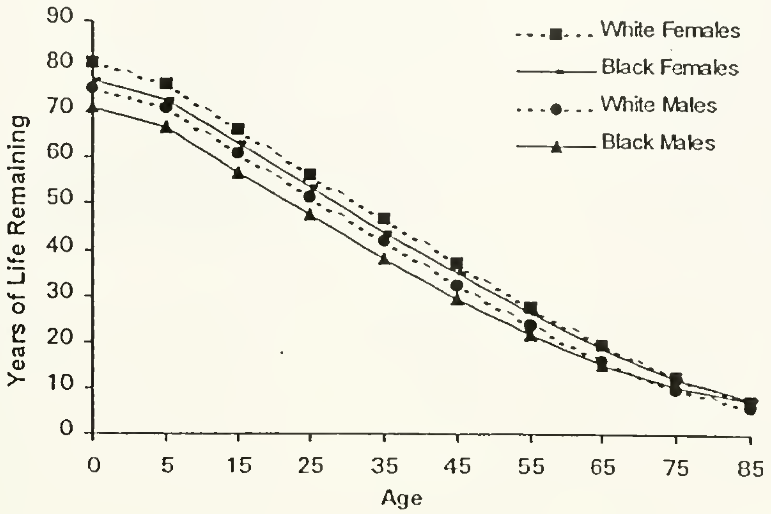
[1] Deaths presented in all tables and figures are resident deaths unless otherwise specified. [2] Previous population estimates were used to calculate the 1997 death rates and may differ slightly from the population numbers appearing elsewhere in this publication. [3] Deaths per 100,000 residents.. [4] See narrative at the beginning of this section for further definition of terms and rates. [5] Resident population data for 1985 are interpolations of the 1980 and 1990 US Census; for 1991 through 1995, MISER annual population estimates released in July 1998 were used; 1996 and 1997 populations are extrapolations of the 1990 Census and the 1995 MISER estimates. PLEASE NOTE: DIFFERENCES BETWEEN THESE RATES AND PREVIOUSLY PUBLISHED DATA REFLECT JULY 1998 MISER UPDATES IN POPULATION ESTIMATES FOR 1991-1996. [6] Rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. [7] See other tables for Hispanic data. . [8] Column sum may not equal total because the age or sex of some decedents was unknown.

Figure C-2. Expected Years of Life Remaining at Different Ages for Males and Females by Race, Massachusetts: 1997



### Years of Life Remaining, Massachusetts: 1997

| At Age: | White Females | Black Females | White Males | Black Males |
|---|---|---|---|---|
| Birth | 80.7 | 77.2 | 75.5 | 70.8 |
| 1 year old* | 80.1 | 76.8 | 74.9 | 70.4 |
| 5 years old | 76.2 | 72.8 | 71.0 | 66.5 |
| 15 years old | 66.2 | 63.0 | 61.1 | 56.7 |
| 25 years old | 56.4 | 53.5 | 51.5 | 47.5 |
| 35 years old | 46.6 | 43.9 | 41.9 | 38.2 |
| 45 years old | 37.0 | 34.9 | 32.6 | 29.5 |
| 55 years old | 27.8 | 26.3 | 23.8 | 21.5 |
| 65 years old | 19.6 | 18.7 | 16.2 | 15.2 |
| 75 years old | 12.4 | 12.3 | 9.9 | 10.2 |
| 85 years old | 7.4 | 7.6 | 6.0 | 7.4 |

* Not shown in the figure.

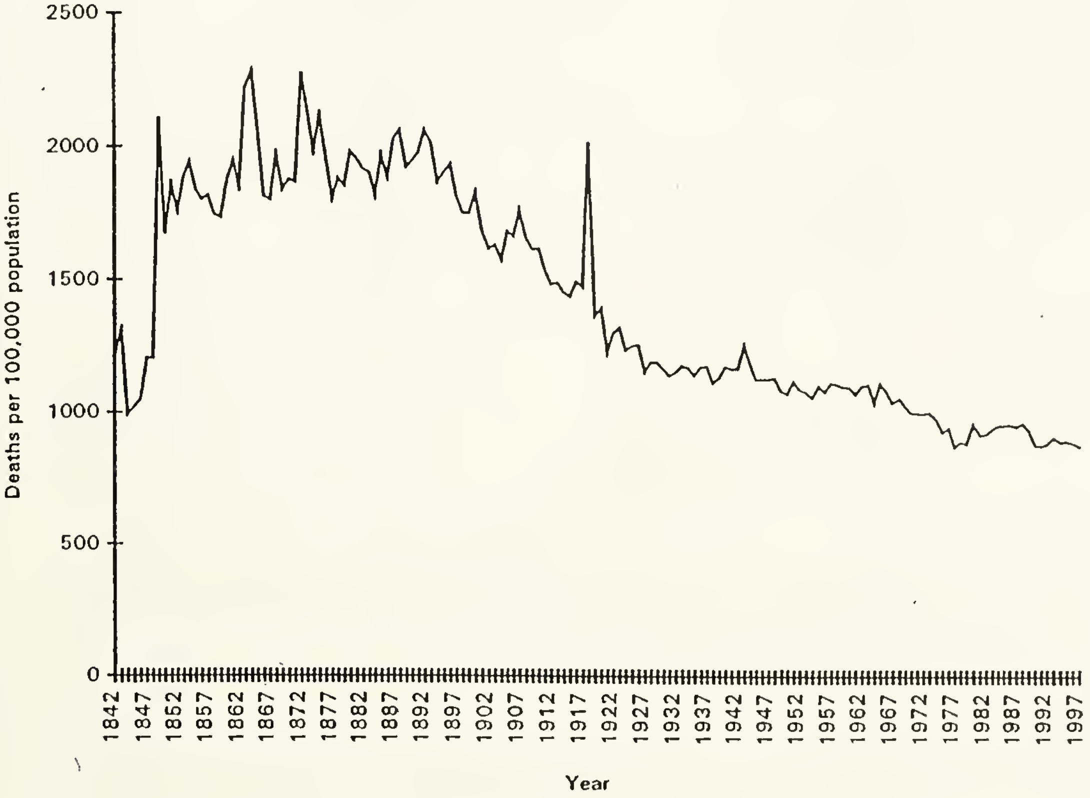
## Table C-2. Five Leading Causes of Death,[1] Age-Adjusted Rates,[2] Massachusetts and United States: 1980, 1985, 1990-1997

| Year | | Heart disease | | Cancer | | Stroke | | Pneumonia/ Influenza | | Unintentional Injuries | | All Causes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MA | US | MA | US | MA | US | MA | US | MA | US | MA | US |
| 1980 | Rate[2] | 197.7 | 202.0 | 136.6 | 132.8 | 34.2 | 40.8 | 16.7 | 12.9 | 30.4 | 42.3 | 550.7 | 585.8 |
| | % of Total | 39.9 | 38.2 | 22.2 | 20.9 | 7.9 | 8.6 | 4.0 | 2.7 | 3.9 | 5.3 | | |
| 1985 | Rate | 178.7 | 180.5 | 140.2 | 133.6 | 27.3 | 32.3 | 14.7 | 13.4 | 25.2 | 34.7 | 523.7 | 546.1 |
| | % of Total | 37.9 | 37.2 | 23.5 | 22.0 | 6.8 | 7.3 | 4.0 | 3.2 | 3.4 | 4.5 | | |
| 1990 | Rate | 138.2 | 150.3 | 136.7 | 133.0 | 22.5 | 27.6 | 14.2 | 13.5 | 19.4 | 32.7 | 471.7 | 515.1 |
| | % of Total | 33.4 | 33.5 | 25.3 | 23.4 | 6.2 | 6.7 | 4.3 | 3.6 | 2.9 | 4.3 | | |
| 1991 | Rate | 134.4 | 146.1 | 140.1 | 132.6 | 21.7 | 26.5 | 14.5 | 12.6 | 18.2 | 31.7 | 470.6 | 507.9 |
| | % of Total | 32.2 | 33.2 | 26.0 | 23.8 | 6.2 | 6.6 | 4.5 | 3.5 | 2.7 | 4.2 | | |
| 1992 | Rate | 131.9 | 144.5 | 143.2 | 133.2 | 21.6 | 26.1 | 13.9 | 12.7 | 16.0 | 29.2 | 472.4 | 504.9 |
| | % of Total | 31.7 | 33.1 | 26.3 | 23.9 | 6.2 | 6.6 | 4.5 | 3.5 | 2.4 | 4.0 | | |
| 1993 | Rate | 131.7 | 145.3 | 139.2 | 132.6 | 21.3 | 26.5 | 15.9 | 13.5 | 16.3 | 30.3 | 472.4 | 513.3 |
| | % of Total | 31.7 | 32.6 | 25.2 | 23.4 | 6.1 | 6.6 | 5.0 | 3.6 | 2.4 | 3.9 | | |
| 1994 | Rate | 124.6 | 140.4 | 137.0 | 131.5 | 21.0 | 26.5 | 15.0 | 13.0 | 15.5 | 30.3 | 463.9 | 507.4 |
| | % of Total | 30.8 | 32.1 | 25.3 | 23.4 | 6.1 | 6.7 | 4.8 | 3.6 | 2.4 | 4.0 | | |
| 1995 | Rate | 118.6 | 138.3 | 136.2 | 129.9 | 21.0 | 26.7 | 14.9 | 12.9 | 14.1 | 30.5 | 455.4 | 503.9 |
| | % of Total | 30.2 | 31.8 | 25.4 | 23.3 | 6.3 | 6.8 | 4.9 | 3.6 | 2.2 | 4.0 | | |
| 1996 | Rate | 118.1 | 134.6 | 132.7 | 129.9 | 20.2 | 26.5 | 14.8 | 12.6 | 14.2 | 30.1 | 444.1 | 492.5 |
| | % of Total | 30.4 | 31.6 | 25.2 | 23.4 | 6.1 | 6.9 | 5.1 | 3.6 | 2.3 | 4.0 | | |
| 1997 | Rate | 114.3 | 129.9 | 129.0 | 125.0 | 20.2 | 25.9 | 14.1 | 13.2 | 14.8 | 28.9 | 431.2 | 478.2[3] |
| | % of Total | 30.2 | 31.3 | 25.0 | 23.2 | 6.2 | 6.9 | 4.9 | 3.8 | 2.3 | 4.0 | | |

---

[1] Cause of death: the disease or injury that initiated the events leading to death; or the circumstances of the unintentional or intentional injury that resulted in the death. [2] All rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. **PLEASE NOTE: DIFFERENCES BETWEEN THESE RATES AND PREVIOUSLY PUBLISHED DATA REFLECT JULY 1998 MISER UPDATES IN POPULATION ESTIMATES FOR 1991-1996.** [3] The 1997 US data are derived from "Births and Deaths: Preliminary Data for 1997, National Vital Statistical Report," Vol. 47, No. 4, October 7, 1998, National Center for Health Statistics, Centers for Disease Control and Prevention, US Department of Health and Human Services.

**Figure C-3. Crude Death Rate,
Massachusetts: 1842[1]-1997**



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[1] In 1842, the Massachusetts state legislature mandated a statewide registration of vital statistics by community. However, not every community participated in the initial years.

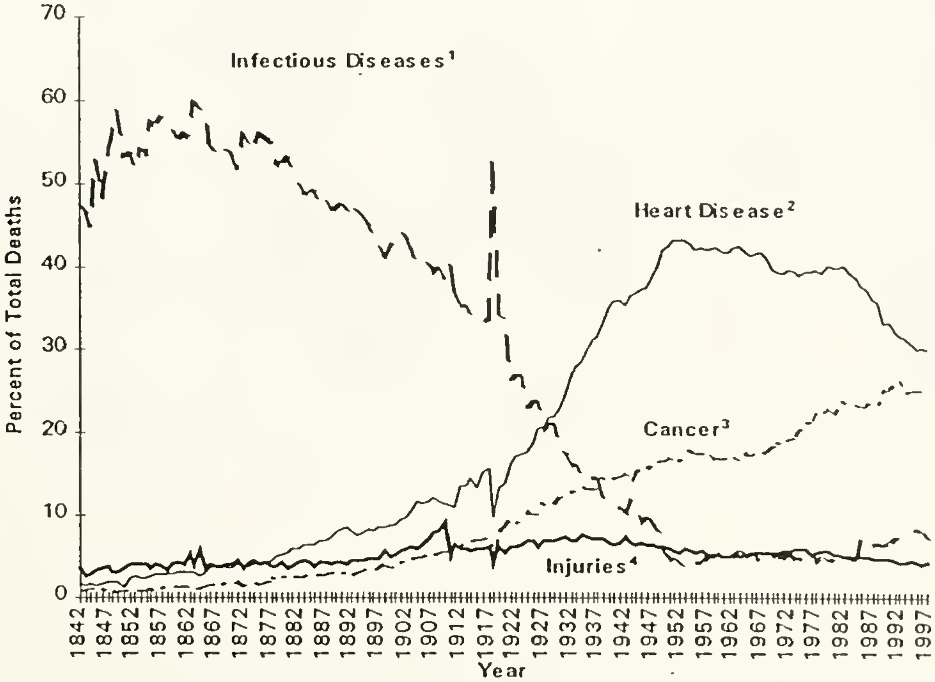
## Table C-3. Leading Causes of Death by Age, All Persons, Massachusetts: 1997

| Age | Cause of Death | Deaths Number | Deaths Rate[1] |
|---|---|---|---|
| 1-14 years | TOTAL | 174 | 14.8 |
| | Unintentional injuries, excluding motor vehicle injuries | 22 | 1.9 |
| | Cancer | 21 | 1.8 |
| | Congenital anomalies | 20 | 1.7 |
| | Motor vehicle-related injuries | 20 | 1.7 |
| 15-24 years | TOTAL | 422 | 57.6 |
| | Motor vehicle-related injuries | 136 | 18.6 |
| | Suicide | 61 | 8.3 |
| | Homicide[2] | 41 | 5.6 |
| | Cancer | 35 | 4.8 |
| 25-44 years | TOTAL | 2,348 | 110.7 |
| | Cancer | 427 | 20.1 |
| | Heart disease | 278 | 13.1 |
| | External causes, unknown intent | 277 | 13.1 |
| | Suicide | 213 | 10.0 |
| 45-64 years | TOTAL | 7,416 | 577.5 |
| | Cancer | 2,952 | 229.9 |
| | Heart disease | 1,890 | 147.7 |
| | Diabetes | 240 | 18.7 |
| | Cerebrovascular disease (stroke) | 227 | 17.7 |
| 65 + years | TOTAL | 43,847 | 5249.6 |
| | Heart disease | 14,266 | 1,708.0 |
| | Cancer | 10,238 | 1,225.7 |
| | Cerebrovascular disease (stroke) | 3,109 | 372.2 |
| | Pneumonia and Influenza | 2,480 | 296.9 |

---

[1] Number of deaths per 100,000 persons in each age group. Previous population estimates were used to calculate the 1997 deaths rates and may differ slightly from the population numbers appearing elsewhere in this publication. [2] The NCHS categories for 72 selected causes of death combines Homicide (ICD-9 E960-969) and Legal Intervention (ICD-9 E970-978). There were no deaths due to legal intervention in this age group in 1997, (one overall).

## Figure C-4. Trends in Deaths from Selected Causes, Massachusetts: 1842-1997



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[1] The category of infectious disease includes Infectious and Parasitic Diseases, ICD-9 codes 001-139, and Pneumonia and Influenza, ICD-9 codes 480-487

[2] Heart Disease, ICD-9 codes 390-398, 402, 404-429

[3] Cancer, ICD-9 codes 140-208

[4] Injuries, ICD-9 codes E800-E999

## Table C-4. Leading Causes of Death[1] and Age-Adjusted Death Rates by Race and Hispanic Ethnicity [2], Massachusetts: 1997

| White | | | Black | | | Asian | | |
|---|---|---|---|---|---|---|---|---|
| Cause | # | Rate[3] | Cause | # | Rate | Cause | # | Rate |
| **Total** | **52,146** | **426.5** | **Total** | 2,033 | 598.0 | **Total** | **403** | **262.9** |
| Heart disease | 15,918 | 114.1 | Cancer | 497 | 159.8 | Cancer | 121 | 36.9 |
| Cancer | 13,045 | 128.9 | Heart disease | 482 | 139.6 | Heart disease | 73 | 20.3 |
| Stroke | 3,264 | 19.8 | Stroke | 104 | 28.6 | Stroke | 32 | 9.3 |
| Pneumonia/ influenza | 2,583 | 14.0 | Diabetes | 92 | 28.4 | Pneumonia/ influenza | 17 | 3.9 |
| COPD[4] | 2,380 | 18.5 | AIDS/HIV-related | 74 | 21.0 | Motor vehicle | 13 | 4.0 |
| Diabetes | 1,256 | 11.3 | Pneumonia/ influenza | 65 | 16.9 | Diabetes | 12 | 3.0 |
| Nephritis | 886 | 6.0 | Nephritis | 48 | 13.9 | Unintentional injury, excl. motor vehicle | 11 | 3.5 |
| Unintentional injury, excl. motor vehicle | 741 | 6.8 | Septicemia | 44 | 14.0 | Suicide | 10 | 2.9 |
| Septicemia | 653 | 4.6 | COPD[4] | 42 | 12.7 | COPD[4] | 8 | 2.4 |
| Other arterial disease | 649 | 4.6 | Homicide | 42 | 12.7 | Septicemia | 7 | 2.2 |

| Hispanic | | | Total | | |
|---|---|---|---|---|---|
| Cause | # | Rate | Cause | # | Rate |
| **Total** | **749** | **269.9** | **Total** | **54,634** | **431.3** |
| Heart disease | 148 | 61.3 | Heart disease | 16,482 | 114.3 |
| Cancer | 129 | 55.1 | Cancer | 13,675 | 129.0 |
| AIDS/HIV-related | 47 | 14.2 | Stroke | 3,401 | 20.2 |
| Diabetes | 38 | 17.4 | Pneumonia/ influenza | 2,667 | 14.1 |
| Perinatal conditions | 37 | 6.1 | COPD[4] | 2,432 | 18.2 |
| Stroke | 33 | 12.9 | Diabetes | 1,361 | 11.7 |
| Pneumonia/ influenza | 25 | 8.1 | Nephritis | 941 | 6.3 |
| Homicide | 25 | 7.1 | Unintentional injury, excl. motor vehicle | 780 | 7.0 |
| Unintentional injury, excl. motor vehicle | 21 | 5.7 | Septicemia | 704 | 5.0 |
| Chronic liver disease | 20 | 8.8 | Other artery disease | 677 | 4.7 |

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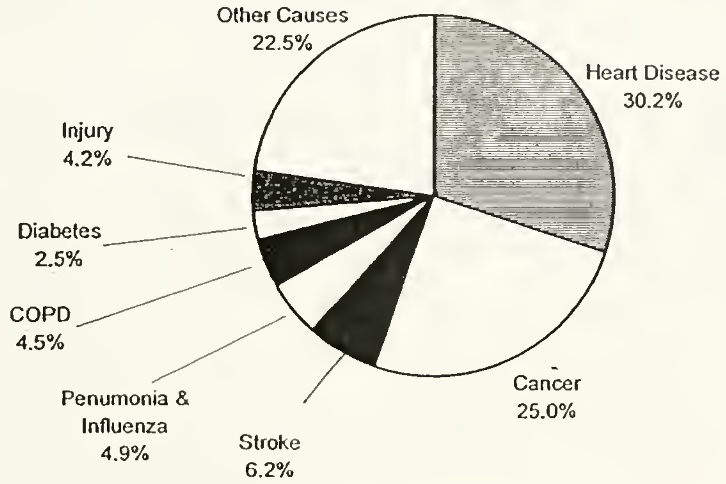
[1] Ranking based on number of deaths. [2] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. [3] All rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. [4] Chronic Obstructive Pulmonary Disease.

## Figure C-5. Percentage Distribution of Leading Causes of Death[1] Massachusetts: 1997



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[1] Number of Total Deaths = 54,634

## Table C-5. Number and Age-Specific Rates for Selected Causes of Death by Race and Hispanic Ethnicity, Massachusetts: 1997

| | Total | | White | | Black | | Asian | | Hispanic[1] | |
|---|---|---|---|---|---|---|---|---|---|---|
| Selected Causes | # | Rate[2] | # | Rate | # | Rate | # | Rate | # | Rate |
| Age: 1-14, TOTAL | 174 | 14.8 | 136 | 13.1 | 28 | 29.9 | 10 | 23.4 | 19 | 17.7 |
| Unintentional injuries, excluding motor vehicle injuries | 22 | 1.9 | 14 | 1.3 | 6 | 6.4 | 2 | --[3] | 1 | --[3] |
| Cancer | 21 | 1.8 | 19 | 1.8 | 1 | --[3] | 1 | --[3] | 3 | --[3] |
| Congenital Anomalies | 20 | 1.7 | 16 | 1.5 | 1 | --[3] | 3 | --[3] | 0 | 0.0 |
| Motor vehicle-related injuries | 20 | 1.7 | 14 | 1.3 | 5 | 5.3 | 1 | --[3] | 2 | --[3] |
| Age: 15-24, TOTAL | 422 | 57.6 | 345 | 53.1 | 64 | 117.9 | 11 | 40.7 | 38 | 63.4 |
| Motor vehicle-related injuries | 136 | 18.6 | 122 | 18.8 | 12 | 22.1 | 2 | --[3] | 7 | 11.7 |
| Suicide | 61 | 8.3 | 54 | 8.3 | 5 | 9.2 | 2 | --[3] | 3 | --[3] |
| Homicide[4] | 41 | 5.6 | 19 | 2.9 | 20 | 36.9 | 2 | --[3] | 12 | 20.0 |
| Cancer | 35 | 4.8 | 30 | 4.6 | 4 | --[3] | 1 | --[3] | 2 | --[3] |
| Age: 25-44, TOTAL | 2,348 | 110.7 | 2,053 | 106.9 | 250 | 206.9 | 41 | 55.5 | 183 | 149.2 |
| Cancer | 427 | 20.1 | 385 | 20.1 | 30 | 24.8 | 12 | 16.2 | 19 | 15.5 |
| Heart disease | 278 | 13.1 | 247 | 12.9 | 27 | 22.3 | 4 | --[3] | 17 | 13.9 |
| External causes, undetermined intent | 277 | 13.1 | 254 | 13.2 | 21 | 17.4 | 0 | 0.0 | 31 | 25.3 |
| Suicide | 213 | 10.0 | 203 | 10.6 | 6 | 5.0 | 4 | --[3] | 6 | 4.9 |
| Age: 45-64, TOTAL | 7,416 | 577.5 | 6,823 | 568.0 | 503 | 956.8 | 78 | 285.6 | 208 | 492.0 |
| Cancer | 2,952 | 229.9 | 2,764 | 230.1 | 156 | 296.8 | 29 | 106.2 | 63 | 149.0 |
| Heart disease | 1,896 | 147.7 | 1,754 | 146.0 | 123 | 234.0 | 16 | 58.6 | 42 | 99.4 |
| Diabetes | 240 | 18.7 | 216 | 18.0 | 22 | 41.8 | 2 | --[3] | 14 | 33.1 |
| Stroke | 227 | 17.7 | 203 | 16.9 | 15 | 28.5 | 9 | 32.9 | 11 | 26.0 |
| Age: 65+, TOTAL | 43,847 | 5249.6 | 42,440 | 5286.8 | 1,122 | 5077.3 | 251 | 2784.6 | 246 | 1611.8 |
| Heart Disease | 14,266 | 1708.0 | 13,888 | 1730.0 | 319 | 1443.5 | 53 | 588.0 | 86 | 563.5 |
| Cancer | 10,238 | 1225.7 | 9,845 | 1226.4 | 306 | 1384.7 | 78 | 865.3 | 41 | 268.6 |
| Stroke | 3,109 | 372.2 | 3,009 | 374.8 | 77 | 348.4 | 22 | 244.1 | 18 | 117.9 |
| Pneumonia | 2,480 | 296.9 | 2,418 | 301.2 | 45 | 203.6 | 15 | 166.4 | 10 | 65.5 |

---

[1] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. [2] Number of deaths per 100,000 persons in each age group. Previous population estimates were used to calculate the 1997 deaths rates and may differ slightly from the population numbers appearing elsewhere in this publication. [3] Calculations based on fewer than five events are excluded. [4] The NCHS categories for 72 selected causes of death combines Homicide (ICD-9 E960-969) and Legal Intervention (ICD-9 E970-978). There were no deaths due to legal intervention in this age group.

## Table C-6. Heart Disease and Cancer Deaths by Race and Sex, Age-Adjusted Rates,[1] Massachusetts: 1980-1997

### Heart Disease

| | White | | | Black | | |
|---|---|---|---|---|---|---|
| Year | Male | Female | Total | Male | Female | Total |
| 1980 | 282.3 | 135.5 | 197.6 | 279.2 | 157.0 | 209.7 |
| 1985 | 252.7 | 119.6 | 176.5 | 250.1 | 150.4 | 193.0 |
| 1990 | 193.1 | 96.7 | 138.2 | 222.1 | 120.4 | 162.3 |
| 1995[2] | 163.7 | 84.0 | 118.9 | 170.5 | 114.5 | 138.6 |
| 1996[2] | 162.2 | 84.0 | 118.5 | 175.8 | 102.3 | 134.3 |
| 1997 | 154.3 | 82.4 | 114.1 | 187.0 | 102.7 | 139.6 |

### Cancer

| | White | | | Black | | |
|---|---|---|---|---|---|---|
| Year | Male | Female | Total | Male | Female | Total |
| 1980 | 169.0 | 117.4 | 137.2 | 223.3 | 120.0 | 162.3 |
| 1985 | 169.8 | 120.6 | 139.6 | 198.3 | 115.0 | 150.0 |
| 1990 | 167.2 | 117.5 | 137.4 | 194.1 | 123.9 | 151.6 |
| 1995[2] | 162.7 | 116.9 | 135.5 | 215.1 | 132.9 | 166.6 |
| 1996[2] | 159.4 | 113.5 | 132.3 | 202.1 | 129.9 | 160.3 |
| 1997 | 151.1 | 113.7 | 128.9 | 207.9 | 127.6 | 159.8 |

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[1] All rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. Rates for 1980, 1985, and 1990 are obtained through CDC WONDER using the Compressed Mortality File (CMF). [2] Differences between these rates and previously published data reflect MISER July 1998 updates in population estimates for 1995-1996.

## Table C-7. Number and Age-Adjusted Rates[1] of Cancer Deaths by Selected Causes[2] and Sex, Massachusetts: 1997

| Cause of Death | ICD-9 Code | Total | | Female | | Male | |
|---|---|---|---|---|---|---|---|
| | | # | Rate[3] | # | Rate | # | Rate |
| Total Cancer Deaths | 140-208 | 13,675 | 129.0 | 6,951 | 113.4 | 6,724 | 151.8 |
| Esophagus | 150 | 306 | 3.2 | 75 | 1.1 | 231 | 5.8 |
| Stomach | 151 | 362 | 3.0 | 161 | 2.0 | 201 | 4.4 |
| Colon, rectum, rectosigmoid junction & anus | 153-154 | 1,532 | 12.9 | 823 | 10.8 | 709 | 15.6 |
| Pancreas | 157 | 714 | 6.6 | 386 | 5.6 | 328 | 7.8 |
| Trachea, bronchus and lung | 162 | 3,629 | 36.8 | 1,660 | 29.8 | 1,969 | 46.5 |
| Melanoma of the skin | 172 | 205 | 2.3 | 84 | 1.8 | 121 | 2.9 |
| Female breast | 174 | 1,125 | 20.4 | 1,125 | 20.4 | - | - |
| Cervix | 180 | 79 | 1.7 | 79 | 1.7 | - | - |
| Body of uterus and of uterus, part unspecified | 179,182 | 152 | 2.4 | 152 | 2.4 | - | - |
| Ovary | 183 | 330 | 5.9 | 330 | 5.9 | - | - |
| Prostate | 185 | 777 | 13.5 | - | - | 777 | 13.5 |
| Bladder | 188 | 354 | 2.7 | 124 | 1.5 | 230 | 4.5 |
| Kidney and other and unspecified urinary organs | 189 | 269 | 2.6 | 100 | 1.5 | 169 | 4.0 |
| Brain and other and unspecified parts of nervous system | 191,192 | 269 | 3.1 | 129 | 2.6 | 140 | 3.6 |
| Hodgkin's disease | 201 | 28 | 0.3 | 20 | 0.4 | 8 | 0.2 |
| Non-Hodgkin's lymphoma | 200,202 (except 202.4) | 599 | 5.7 | 315 | 4.8 | 284 | 6.7 |
| Multiple myeloma and other immunoproliferative neoplasms | 203 | 232 | 2.1 | 109 | 1.7 | 123 | 2.7 |
| Leukemia | 202.4, 204-208 | 460 | 4.2 | 220 | 3.2 | 240 | 5.5 |
| All other cancers | Residual | 2,253 | 21.4 | 1,059 | 16.1 | 1,194 | 28.0 |

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[1] All rates are age-adjusted by the direct method using the 1940 US Census population. Rates are per 100,000 population. [2] The grouping of ICD-9 codes for selected causes of cancers used in this document was updated starting with 1994. [3] The total resident population is used to calculate all "Total Rates" except for ICD-9 174 to 183, which are based on the total female population, and ICD-9 185, which is based on the total male population. Previous population estimates were used to calculate the 1997 deaths rates and may differ slightly from the population numbers appearing elsewhere in this publication.

## Table C-8. Selected Causes of Cancer Deaths by Age, Massachusetts: 1997

| Age | Cause of death[1] | ICD-9 Code | Number | Age-specific rate[2] |
|---|---|---|---|---|
| 1 - 14 | TOTAL | | 21 | 1.8 |
| | Leukemia | 202.4, 204-208 | 8 | 0.7 |
| | Brain & other unspecified parts of the nervous system | 191 | 5 | 0.4 |
| | Kidney and urinary tract organs | 189 | 1 | –[3] |
| | Non-Hodgkin's lymphoma | 200, 202 (except 202.4) | 1 | –[3] |
| 15 - 24 | TOTAL | | 35 | 4.8 |
| | Leukemia | 202.4, 204-208 | 12 | 1.6 |
| | Non-Hodgkin's lymphoma | 200, 202 (except 202.4) | 8 | 1.1 |
| | Melanoma | 172 | 2 | –[3] |
| | Brain & other unspecified parts of the nervous system | 191 | 2 | –[3] |
| 25 - 44 | TOTAL | | 427 | 20.1 |
| | Female breast | 174 | 87 | 8.1[4] |
| | Trachea, bronchus & lung | 162 | 50 | 2.4 |
| | Colon, rectum | 153-154 | 30 | 1.4 |
| | Non-Hodgkin's lymphoma | 200, 202 (except 202.4) | 26 | 1.2 |
| 45 - 64 | TOTAL | | 2,952 | 229.9 |
| | Trachea, bronchus & lung | 162 | 922 | 71.8 |
| | Female breast | 174 | 314 | 47.2[4] |
| | Colon, rectum | 153-154 | 251 | 19.5 |
| | Pancreas | 157 | 145 | 11.3 |
| 65 + | TOTAL | | 10,238 | 1,225.7 |
| | Trachea, bronchus & lung | 162 | 2,656 | 318.0 |
| | Colon, rectum | 153-154 | 1,251 | 149.8 |
| | Female breast | 174 | 730 | 221.5[4] |
| | Prostate | 185 | 724 | 143.2[5] |

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[1] The grouping of ICD-9 codes for selected causes of cancers used in this document was updated starting with 1994. [2] Number of deaths per 100,000 residents in each age group. Previous population estimates were used to calculate the 1997 deaths rates and may differ slightly from the population numbers appearing elsewhere in this publication. [3] Calculations based on fewer than five events are excluded. [4] Calculation based on female population in specified age group. [5] Calculation based on male population in specified age group.

### Table C-9. Selected Causes of Cancer Deaths and Age-Adjusted Rates by Race & Hispanic Ethnicity, Massachusetts: 1997[1,2]

| | White | | | Black | | | Asian | | | Hispanic[3] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cause | # | Rate | Cause | # | Rate | Cause | # | Rate | Cause | # | Rate |
| Trachea, bronchus and lung | 3,482 | 37.1 | Trachea, bronchus and lung | 121 | 40.8 | Trachea, bronchus and lung | 22 | 15.6 | Trachea, bronchus and lung | 22 | 10.5 |
| Colon, rectum, rectosigmoid junction, and anus | 1,459 | 12.8 | Colon, rectum, rectosigmoid junction, and anus | 56 | 18.1 | Colon, rectum, rectosigmoid junction, and anus | 15 | 10.2 | Colon, rectum, rectosigmoid junction, and anus | 14 | 6.3 |
| Female breast | 1,078 | 20.5 | Prostate | 45 | 33.0 | Stomach | 13 | 8.3 | Female breast | 11 | 9.2 |
| Prostate | 728 | 13.1 | Female breast | 39 | 22.2 | Leukemia | 9 | 6.0 | Prostate | 10 | 8.9 |
| **Total Cancer** | **13,045** | **128.9** | **Total Cancer** | **497** | **159.8** | **Total cancer** | **121** | **36.9** | **Total Cancer** | **129** | **55.1** |

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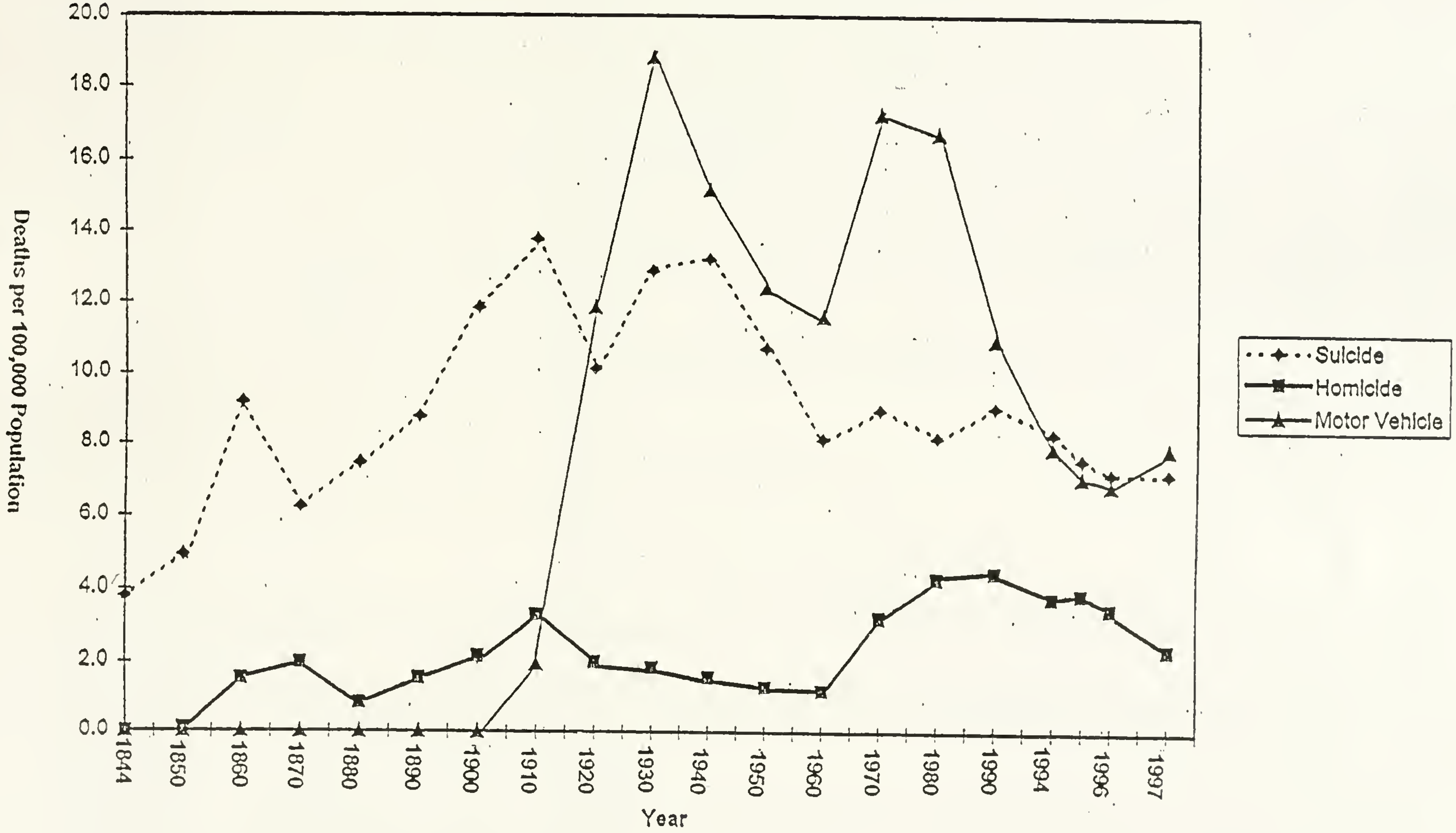
[1] The grouping of ICD-9 codes for selected causes of cancers was updated starting with 1994. [2] All rates are age-adjusted by the direct method using the 1940 US Census population. Rates are per 100,000 population. **PLEASE NOTE: DIFFERENCES BETWEEN THESE RATES AND PREVIOUSLY PUBLISHED DATA REFLECT JULY 1998 MISER UPDATES IN POPULATION ESTIMATES FOR 1991-1996.**

[3] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

Figure C-6. Suicide, Homicide and Motor Vehicle Death Rates, Massachusetts: 1844-1997



## Table C-10. Injury Deaths by Sex, Age, Race and Hispanic Ethnicity: Numbers, Age-Adjusted, and Age-Specific Rates[1], Massachusetts: 1997

| Cause of Death<br>(ICD-9 Code) | All Injuries<br>(E800-E999) | | Motor Vehicle[2]<br>(E810-E825) | | Suicide<br>(E950-E959) | | Homicide[3]<br>(E960-E969) | | Other Injuries[4]<br>(E800-E809, E826-E949, E970-E999) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Age/Sex | #[5] | Rate | # | Rate | # | Rate | # | Rate | # | Rate |
| All Persons | 2,314 | 30.4 | 501 | 7.9 | 487 | 7.2 | 137 | 2.4 | 1,189 | 12.9 |
| <1[6] | 6 | -- | 0 | 0.0 | 0 | 0.0 | 3 | --[6] | 3 | --[6] |
| 1-14 | 52 | 4.4 | 20 | 1.7 | 3 | --[6] | 5 | 0.4 | 24 | 2.0 |
| 15-24 | 295 | 40.3 | 136 | 18.6 | 61 | 8.3 | 41 | 5.6 | 57 | 7.8 |
| 25-44 | 801 | 37.8 | 140 | 6.6 | 213 | 10.0 | 55 | 2.6 | 393 | 18.5 |
| 45-64 | 415 | 32.3 | 76 | 5.9 | 125 | 9.7 | 24 | 1.9 | 190 | 14.8 |
| 65+ | 744 | 89.1 | 129 | 15.4 | 85 | 10.2 | 9 | 1.1 | 521 | 62.4 |
| All Females | 764 | 15.5 | 168 | 4.7 | 96 | 2.7 | 40 | 1.3 | 460 | 6.7 |
| <1 | 2 | --[6] | 0 | 0.0 | 0 | 0.0 | 1 | --[6] | 1 | --[6] |
| 1-14 | 16 | 2.8 | 7 | 1.2 | 0 | 0.0 | 2 | --[6] | 7 | 1.2 |
| 15-24 | 64 | 17.8 | 36 | 10.0 | 8 | 2.2 | 8 | 2.2 | 12 | 3.3 |
| 25-44 | 202 | 18.9 | 40 | 3.7 | 52 | 4.9 | 18 | 1.7 | 92 | 8.6 |
| 45-64 | 102 | 15.3 | 27 | 4.1 | 24 | 3.6 | 9 | 1.4 | 42 | 6.3 |
| 65+ | 377 | 74.6 | 58 | 11.5 | 12 | 2.4 | 2 | --[6] | 305 | 60.3 |
| All Males | 1,550 | 46.2 | 333 | 11.2 | 391 | 11.9 | 97 | 3.5 | 729 | 19.5 |
| <1 | 4 | --[6] | 0 | 0.0 | 0 | 0.0 | 2 | --[6] | 2 | --[6] |
| 1-14 | 36 | 6.0 | 13 | 2.2 | 3 | --[6] | 3 | --[6] | 17 | 2.8 |
| 15-24 | 231 | 61.8 | 100 | 26.8 | 53 | 14.2 | 33 | 8.8 | 45 | 12.0 |
| 25-44 | 599 | 57.0 | 100 | 9.5 | 161 | 15.3 | 37 | 3.5 | 301 | 28.7 |
| 45-64 | 313 | 50.5 | 49 | 7.9 | 101 | 16.3 | 15 | 2.4 | 148 | 23.9 |
| 65+ | 367 | 111.4 | 71 | 21.5 | 73 | 22.2 | 7 | 2.1 | 216 | 65.5 |
| Race/Sex | | | | | | | | | | |
| All Whites | 2,108 | 29.4 | 451 | 7.7 | 460 | 7.4 | 90 | 1.7 | 1,107 | 12.7 |
| Females | 704 | 14.8 | 148 | 4.4 | 88 | 2.7 | 29 | 1.0 | 439 | 6.8 |
| Males | 1,404 | 44.8 | 303 | 11.1 | 372 | 12.3 | 61 | 2.4 | 668 | 19.0 |
| All Blacks | 160 | 47.1 | 37 | 11.0 | 17 | 5.1 | 42 | 12.7 | 64 | 18.2 |
| Females | 42 | 23.3 | 13 | 7.7 | 2 | --[6] | 8 | 4.9 | 19 | 9.5 |
| Males | 118 | 72.3 | 24 | 14.4 | 15 | 9.6 | 34 | 20.7 | 45 | 27.5 |
| All Asians | 41 | 24.2 | 13 | 7.6 | 10 | 6.1 | 5 | 2.7 | 13 | 7.8 |
| Females | 18 | 21.4 | 7 | 9.6 | 6 | 7.2 | 3 | --[6] | 2 | --[6] |
| Males | 23 | 26.4 | 6 | 5.4 | 4 | --[6] | 2 | --[6] | 11 | 14.3 |
| All Hispanics[7] | 113 | 31.7 | 17 | 5.0 | 12 | 3.6 | 25 | 7.1 | 59 | 16.1 |
| Females | 25 | 13.9 | 4 | 2.4 | 2 | 1.0 | 5 | 2.7 | 14 | 7.7 |
| Males | 88 | 49.7 | 13 | 7.4 | 10 | 6.0 | 20 | 11.2 | 45 | 25.1 |

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[1] Number of deaths per 100,000 persons in each age group; rates for all rows except the age group rows are age-adjusted. [2] Motor vehicle deaths to occupants, pedestrians, motorcyclists and bicyclists. [3] The NCHS categories for 72 selected causes of death combines Homicide (ICD-9 960-969) and Legal Intervention (ICD-9 970-978). In addition to 137 homicides there was one death caused by legal intervention to a male, age 25-44, which is included under "Other Injury." [4] Other Injuries also includes deaths from drownings, fires and falls, as well as deaths of undetermined intent (deaths where investigation has not determined whether the injuries were accidental or purposely inflicted). [5] Column sum may not equal total because age or race of some decedents was not known. [6] Calculations based on fewer than five events are excluded. [7] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

## Table C-11. AIDS/HIV-Related Deaths[1] by Sex and Race/Ethnicity, Massachusetts: 1987-1997[2]

| | | | Place of Occurrence | | | | Sex | |
|---|---|---|---|---|---|---|---|---|
| Year | | Total[3] | At Home | Hospital | Out of State | Hospice/ Nursing Home/Other | Female | Male |
| 1987 | # | 241 | 26 | 207 | 5 | 3 | 32 | 209 |
| | % | 100.0 | 10.8 | 85.9 | 2.1 | - | 13.3 | 86.7 |
| 1988 | # | 315 | 67 | 234 | 7 | 7 | 34 | 281 |
| | % | 100.0 | 21.3 | 74.3 | 2.2 | 2.2 | 10.8 | 89.2 |
| 1989 | # | 404 | 79 | 313 | 7 | 5 | 45 | 359 |
| | % | 100.0 | 19.6 | 77.5 | 1.7 | 1.2 | 11.1 | 88.9 |
| 1990 | # | 447 | 90 | 284 | 9 | 64 | 57 | 390 |
| | % | 100.0 | 20.1 | 63.5 | 2.1 | 14.3 | 12.8 | 87.2 |
| 1991 | # | 632 | 159 | 338 | 4 | 131 | 97 | 535 |
| | % | 100.0 | 25.2 | 53.5 | - | 20.7 | 15.4 | 84.6 |
| 1992 | # | 701 | 171 | 394 | 14 | 122 | 96 | 605 |
| | % | 100.0 | 24.4 | 56.2 | 2.0 | 17.4 | 13.7 | 86.3 |
| 1993 | # | 777 | 218 | 413 | 14 | 127 | 114 | 663 |
| | % | 100% | 28.1 | 53.2 | 1.8 | 16.3 | 14.7 | 85.3 |
| 1994 | # | 938 | 265 | 514 | 13 | 142 | 175 | 763 |
| | % | 100% | 28.3 | 54.8 | 1.4 | 15.1 | 18.7 | 81.3 |
| 1995 | # | 937 | 303 | 500 | 7 | 127 | 184 | 753 |
| | % | 100% | 32.3 | 53.4 | 0.7 | 13.6 | 19.6 | 80.4 |
| 1996 | # | 609 | 154 | 336 | 9 | 110 | 115 | 494 |
| | % | 100% | 25.3 | 55.2 | 1.5 | 18.1 | 18.9 | 81.1 |
| 1997 | # | 242 | 59 | 158 | 4 | 21 | 52 | 190 |
| | % | 100% | 24.4 | 65.3 | - | 8.6 | 21.5 | 78.5 |

[1] AIDS: Acquired Immune Deficiency Syndrome; HIV: Human Immunodeficiency Virus. The deaths reported are cases for which AIDS or HIV-related disease was the underlying cause of death. [2] The deaths presented were coded by using the most current ICD-9 classification schedule, which began with 1987 death data. [3] ICD Codes: AIDS-042, AIDS-like syndrome-043 and Other HIV infection-044.

## Table C-11. (continued) AIDS/HIV-Related Deaths[1] by Sex and Race/Ethnicity, Massachusetts: 1987-1997[2]

| | | Age | | | | | Race/Ethnicity | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | | <15 | 15-24 | 25-34 | 35-44 | 45 + | White | Black | Other[3] | Hispanic[4] |
| 1987 | # | 5 | 8 | 105 | 78 | 45 | 190 | 50 | 1 | NA |
| | % | 2.1 | 3.3 | 43.6 | 32.3 | 18.7 | 78.8 | 20.8 | - | |
| 1988 | # | 5 | 12 | 111 | 127 | 60 | 251 | 64 | 0 | NA |
| | % | 1.6 | 3.8 | 35.2 | 40.3 | 19.1 | 79.7 | 20.3 | 0.0 | |
| 1989 | # | 3 | 16 | 146 | 167 | 72 | 327 | 76 | 1 | 37 |
| | % | - | 4.0 | 36.1 | 41.3 | 17.8 | 81.0 | 18.8 | - | 9.2 |
| 1990 | # | 3 | 4 | 147 | 197 | 96 | 352 | 94 | 1 | 50 |
| | % | - | - | 32.8 | 44.1 | 21.5 | 78.8 | 21.0 | - | 11.2 |
| 1991 | # | 9 | 19 | 214 | 298 | 92 | 513 | 118 | 1 | 74 |
| | % | 1.4 | 3.0 | 33.8 | 47.2 | 14.6 | 81.2 | 18.7 | - | 14.4 |
| 1992 | # | 6 | 5 | 243 | 304 | 143 | 558 | 141 | 2 | 95 |
| | % | 0.8 | 0.7 | 34.7 | 43.4 | 20.4 | 79.6 | 20.1 | - | 13.6 |
| 1993 | # | 10 | 5 | 234 | 359 | 157 | 612 | 160 | 5 | 94 |
| | % | 1.3 | 0.6 | 30.1 | 46.2 | 20.2 | 78.7 | 20.6 | 0.6 | 12.1 |
| 1994 | # | 7 | 8 | 272 | 464 | 187 | 738 | 193 | 7 | 157 |
| | % | 0.7 | 0.9 | 29.0 | 49.5 | 19.9 | 78.7 | 20.6 | 0.7 | 16.7 |
| 1995 | # | 11 | 5 | 272 | 443 | 206 | 709 | 223 | 5 | 155 |
| | % | 1.2 | 0.5 | 29.0 | 47.3 | 22.0 | 75.7 | 23.8 | 0.5 | 16.5 |
| 1996 | # | 4 | 8 | 154 | 300 | 143 | 442 | 161 | 6 | 101 |
| | % | 0.7 | 1.3 | 25.3 | 49.3 | 23.5 | 72.6 | 26.4 | 1.0 | 16.6 |
| 1997 | # | 5 | 1 | 35 | 135 | 66 | 168 | 74 | 0 | 47 |
| | % | 2.1 | - | 14.5 | 55.8 | 27.3 | 69.4 | 30.6 | 0.0 | 19.6 |

[1] AIDS: Acquired Immune Deficiency Syndrome; HIV: Human Immunodeficiency Virus. The deaths reported are cases for which AIDS or HIV-related disease (ICD Codes: AIDS-042, AIDS-like syndrome-043 and Other HIV infection-044) was the underlying cause of death. [2] The deaths presented were coded by using the most current ICD-9 classification schedule (AIDS-042, AIDS-like syndrome-043 and Other HIV Infection-044), which began with 1987 death data. [3] The "Other" category represents Asians and American Indians. [4] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

## Table C-12. AIDS and HIV-Related Deaths by Race and Hispanic Ethnicity, Persons Ages 25-44, Massachusetts: 1989 - 1997

| | White | | | | | | Black | | | | | | Hispanic[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Female | | Male | | Total | | Female | | Male | | Total | | Female | | Male | |
| Year | # | Rate[2] | # | Rate | # | Rate | # | Rate | # | Rate | # | Rate | # | Rate | # | Rate | # | Rate |
| 1989 | 221 | 12.2 | 15 | 1.6 | 206 | 23.1 | 60 | 56.3 | 17 | 31.1 | 43 | 82.9 | 32 | 36.0 | 6 | 13.3 | 26 | 59.4 |
| 1990 | 270 | 14.7 | 22 | 2.4 | 248 | 27.2 | 73 | 65.4 | 23 | 40.4 | 50 | 91.6 | 40 | 42.4 | 4 | --[3] | 36 | 77.1 |
| 1991 | 412 | 22.0 | 51 | 5.4 | 361 | 39.0 | 99 | 87.3 | 28 | 48.4 | 71 | 128.0 | 55 | 55.3 | 16 | 31.9 | 39 | 79.1 |
| 1992 | 441 | 23.6 | 49 | 5.2 | 392 | 42.4 | 105 | 92.5 | 26 | 44.9 | 79 | 142.1 | 79 | 77.0 | 15 | 29.0 | 64 | 125.8 |
| 1993 | 467 | 24.9 | 60 | 6.3 | 407 | 43.9 | 122 | 106.3 | 31 | 52.9 | 91 | 161.8 | 76 | 71.3 | 19 | 35.4 | 57 | 107.6 |
| 1994 | 578 | 30.6 | 97 | 10.2 | 481 | 51.5 | 152 | 130.6 | 39 | 65.7 | 113 | 198.0 | 127 | 114.4 | 34 | 61.0 | 93 | 168.2 |
| 1995 | 552 | 29.1 | 95 | 9.9 | 457 | 48.7 | 159 | 134.8 | 47 | 78.2 | 112 | 193.6 | 124 | 108.2 | 34 | 59.3 | 90 | 157.1 |
| 1996 | 336 | 17.6 | 54 | 5.6 | 282 | 29.8 | 113 | 94.6 | 40 | 65.8 | 73 | 124.6 | 85 | 71.7 | 24 | 40.5 | 61 | 102.7 |
| 1997 | 122 | 6.4 | 23 | 2.4 | 99 | 10.4 | 48 | 39.7 | 18 | 29.3 | 30 | 50.5 | 36 | 29.4 | 8 | 13.1 | 28 | 45.6 |

[1] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. [2] Number of deaths per 100,000 residents in the specified population group. PLEASE NOTE: DIFFERENCES BETWEEN THESE RATES AND PREVIOUSLY PUBLISHED DATA REFLECT JULY 1998 UPDATES IN POPULATION ESTIMATES FOR 1991-1996. [3] Calculations based on fewer than five events are excluded.

## Table C-13A. Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1997

| Age | Race/Sex | Total Deaths Certified by Medical Examiner | Motor Vehicle Injuries (E810-E825) | Suicide (E950-E959) | Homicide (E960-E969) | Legal Intervention/ Undeter. Injury (E970-E999) | All Other Injuries (E800-E809, E826-E949) | Non-violent Causes (000-779) | Ill-Defined & Unknown Causes (780-799) |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL[1] | White M | 2,480 | 294 | 367 | 59 | 271 | 240 | 1,202 | 47 |
| | F | 1,118 | 142 | 87 | 30 | 98 | 110 | 627 | 24 |
| | Black M | 234 | 25 | 16 | 35 | 28 | 22 | 98 | 10 |
| | F | 86 | 9 | 2 | 7 | 10 | 6 | 44 | 8 |
| | Other M | 43 | 7 | 5 | 2 | 3 | 11 | 12 | 3 |
| | F | 24 | 7 | 6 | 3 | 0 | 0 | 8 | 0 |
| | Total | 3,988 | 484 | 483 | 136 | 412 | 389 | 1,992 | 92 |
| < 1 | White M | 27 | 0 | 0 | 2 | 0 | 1 | 9 | 15 |
| | F | 23 | 0 | 0 | 1 | 0 | 1 | 13 | 8 |
| | Black M | 9 | 0 | 0 | 0 | 0 | 1 | 5 | 3 |
| | F | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| | Other M | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| | F | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | Total | 69 | 0 | 0 | 3 | 0 | 4 | 29 | 33 |
| 1-14 | White M | 37 | 10 | 2 | 3 | 1 | 9 | 11 | 1 |
| | F | 16 | 4 | 0 | 1 | 0 | 6 | 5 | 0 |
| | Black M | 13 | 2 | 1 | 0 | 0 | 5 | 4 | 1 |
| | F | 7 | 1 | 0 | 0 | 1 | 4 | 1 | 0 |
| | Other M | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | F | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | Total | 76 | 17 | 3 | 6 | 2 | 26 | 21 | 2 |
| 15-19 | White M | 80 | 32 | 21 | 8 | 4 | 8 | 7 | 0 |
| | F | 34 | 21 | 3 | 2 | 3 | 4 | 1 | 0 |
| | Black M | 18 | 3 | 2 | 8 | 1 | 2 | 2 | 0 |
| | F | 5 | 2 | 0 | 1 | 0 | 0 | 2 | 0 |
| | Other M | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | F | 3 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| | Total | 141 | 59 | 26 | 20 | 8 | 14 | 14 | 0 |

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[1] Total includes one male of unknown age and other race, one female of unknown age and other race, and one male of unknown race aged 40-49.

## Table C-13A (continued): Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1997

| Age | Race/Sex | Total Deaths Certified by Medical Examiner | Motor Vehicle Injuries (E810-E825) | Suicide (E950-E959) | Homicide (E960-E969) | Legal Intervention/ Undeter. Injury (E970-E999) | All Other Injuries (E800-E809, E826-E949) | Non-violent Causes (000-779) | Ill-Defined & Unknown Causes (780-799) |
|---|---|---|---|---|---|---|---|---|---|
| 20-29 | White M | 217 | 70 | 48 | 13 | 28 | 25 | 26 | |
| | F | 67 | 22 | 10 | 5 | 13 | 3 | 13 | |
| | Black M | 38 | 7 | 3 | 14 | 6 | 3 | 5 | |
| | F | 9 | 2 | 1 | 4 | 0 | 0 | 2 | |
| | Other M | 8 | 1 | 3 | 2 | 0 | 2 | 0 | |
| | F | 3 | 2 | 1 | 0 | 0 | 0 | 0 | |
| | Total | 342 | 104 | 66 | 38 | 47 | 33 | 46 | |
| 30-39 | White M | 415 | 44 | 95 | 15 | 112 | 29 | 113 | |
| | F | 133 | 15 | 23 | 6 | 35 | 11 | 37 | |
| | Black M | 46 | 8 | 4 | 8 | 10 | 2 | 12 | |
| | F | 20 | 2 | 1 | 1 | 4 | 2 | 8 | |
| | Other M | 15 | 5 | 1 | 0 | 2 | 2 | 4 | |
| | F | 5 | 1 | 1 | 1 | 0 | 0 | 2 | |
| | Total | 634 | 75 | 125 | 31 | 163 | 46 | 176 | |
| 40-49 | White M | 529 | 34 | 72 | 7 | 100 | 48 | 257 | |
| | F | 185 | 13 | 28 | 8 | 30 | 8 | 96 | |
| | Black M | 46 | 2 | 2 | 3 | 7 | 4 | 26 | |
| | F | 7 | 1 | 0 | 0 | 1 | 0 | 5 | |
| | Other M | 3 | 1 | 0 | 0 | 0 | 0 | 2 | |
| | F | 1 | 0 | 1 | 0 | 0 | 0 | 0 | |
| | Total | 771 | 51 | 103 | 18 | 138 | 60 | 386 | |
| 50-59 | White M | 361 | 26 | 44 | 4 | 20 | 23 | 242 | |
| | F | 121 | 11 | 11 | 4 | 12 | 5 | 76 | |
| | Black M | 28 | 1 | 2 | 1 | 3 | 1 | 18 | |
| | F | 10 | 1 | 0 | 1 | 2 | 0 | 6 | |
| | Other M | 6 | 0 | 0 | 0 | 0 | 2 | 4 | |
| | F | 2 | 1 | 0 | 0 | 0 | 0 | 1 | |
| | Total | 528 | 40 | 57 | 10 | 37 | 31 | 347 | |

## Table C-13A (continued). Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1997

| Age | Race/Sex | Total Deaths Certified by Medical Examiner | Motor Vehicle Injuries (E810-E825) | Suicide (E950-E959) | Homicide (E960-E969) | Legal Intervention/ Undeter. Injury (E970-E999) | All Other Injuries (E800-E809, E826-E949) | Non-violent Causes (000-779) | Ill-Defined & Unknown Causes (780-799) |
|---|---|---|---|---|---|---|---|---|---|
| 60-69 | White M | 309 | 22 | 29 | 4 | 3 | 24 | 225 | |
| | F | 122 | 14 | 5 | 1 | 3 | 7 | 91 | |
| | Black M | 16 | 2 | 1 | 1 | 1 | 1 | 10 | |
| | F | 6 | 0 | 0 | 0 | 1 | 0 | 4 | |
| | Other M | 3 | 0 | 0 | 0 | 0 | 2 | 1 | |
| | F | 4 | 1 | 2 | 0 | 0 | 0 | 1 | |
| | Total | 460 | 39 | 37 | 6 | 8 | 34 | 332 | |
| 70-79 | White M | 287 | 26 | 33 | 3 | 2 | 31 | 191 | |
| | F | 185 | 24 | 6 | 0 | 1 | 21 | 132 | |
| | Black M | 13 | 0 | 0 | 0 | 0 | 2 | 11 | |
| | F | 13 | 0 | 0 | 0 | 1 | 0 | 12 | |
| | Other M | 1 | 0 | 0 | 0 | 1 | 0 | 0 | |
| | F | 1 | 1 | 0 | 0 | 0 | 0 | 0 | |
| | Total | 500 | 51 | 39 | 3 | 5 | 54 | 346 | |
| 80+ | White M | 218 | 30 | 23 | 0 | 1 | 42 | 121 | |
| | F | 232 | 18 | 1 | 2 | 1 | 44 | 163 | |
| | Black M | 7 | 0 | 1 | 0 | 0 | 1 | 5 | |
| | F | 3 | 0 | 0 | 0 | 0 | 0 | 3 | |
| | Other M | 1 | 0 | 1 | 0 | 0 | 0 | 0 | |
| | F | 3 | 0 | 1 | 0 | 0 | 0 | 2 | |
| | Total | 464 | 48 | 27 | 2 | 2 | 87 | 294 | |

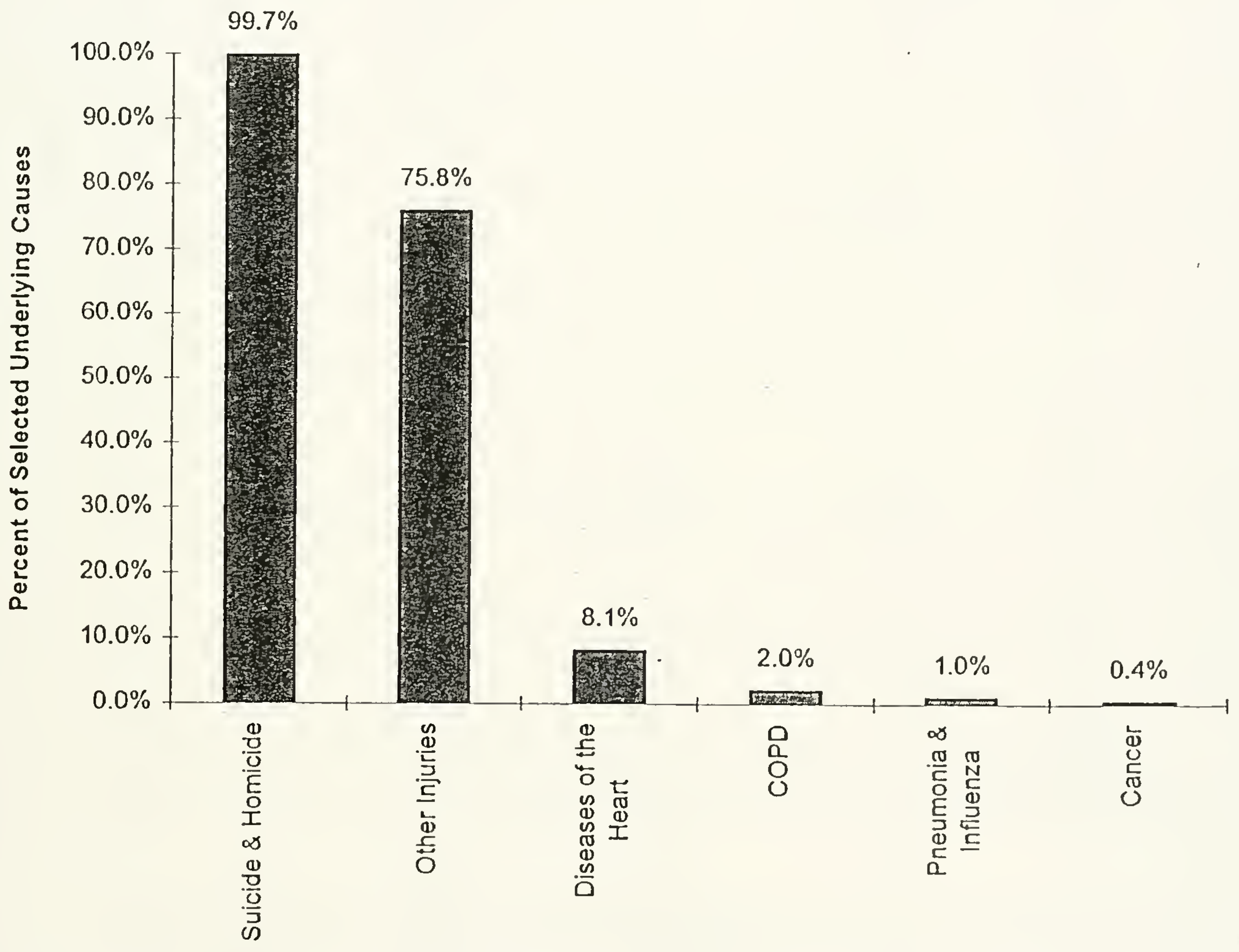

Figure C-7. Proportion of Deaths Certified by Medical Examiner for Selected Causes of Death, Massachusetts Occurrence Deaths: 1997

## Table C-13B: Medical Examiner Certified Deaths by County, Massachusetts Occurrence: 1997

| County | | Population[1] | Occurrence Deaths | M.E. Certified[2] | Referred–Not Certified By M.E.[2] | Natural Cause Deaths Certified by M.E.[3] |
|---|---|---|---|---|---|---|
| **TOTAL** | # | 6,233,748 | 55,527 | 3,989 | 8,955 | 1,975 |
| | % | 100.0 | 100.0 | 7.2 | 16.1 | 49.5 |
| | Rank | -- | -- | -- | -- | -- |
| **Barnstable** | # | 204,095 | 2,444 | 211 | 331 | 124 |
| | % | 3.3 | 4.4 | 8.6 | 13.5 | 58.8 |
| | Rank | 9 | 9 | 5 | 10 | 2 |
| **Berkshire** | # | 145,262 | 1,619 | 90 | 230 | 39 |
| | % | 2.3 | 2.9 | 5.6 | 14.2 | 43.3 |
| | Rank | 11 | 10 | 14 | 9 | 12 |
| **Bristol** | # | 520,976 | 4,460 | 349 | 646 | 191 |
| | % | 8.4 | 8.0 | 7.8 | 14.5 | 54.7 |
| | Rank | 6 | 7 | 6 | 8 | 6 |
| **Dukes** | # | 13,849 | 121 | 18 | 13 | 10 |
| | % | 0.2 | 0.2 | 14.9 | 10.7 | 55.6 |
| | Rank | 13 | 13 | 1 | 12 | 5 |
| **Essex** | # | 700,199 | 6,015 | 463 | 676 | 241 |
| | % | 11.2 | 10.8 | 7.7 | 11.2 | 52.1 |
| | Rank | 3 | 4 | 8 | 11 | 9 |
| **Franklin** | # | 71,223 | 565 | 61 | 50 | 34 |
| | % | 1.1 | 1.0 | 10.8 | 8.8 | 55.7 |
| | Rank | 12 | 12 | 3 | 13 | 4 |
| **Hampden** | # | 451,765 | 4,814 | 355 | 909 | 154 |
| | % | 7.3 | 8.7 | 7.4 | 18.9 | 43.4 |
| | Rank | 8 | 6 | 9 | 2 | 11 |
| **Hampshire** | # | 170,616 | 1,032 | 60 | 209 | 31 |
| | % | 2.7 | 1.9 | 5.8 | 20.2 | 51.7 |
| | Rank | 10 | 11 | 12 | 1 | 10 |
| **Middlesex** | # | 1,445,966 | 10,654 | 612 | 1,774 | 328 |
| | % | 23.2 | 19.2 | 5.7 | 16.7 | 53.6 |
| | Rank | 1 | 1 | 13 | 6 | 8 |
| **Nantucket** | # | 7,500 | 79 | 10 | 0 | 8 |
| | % | 0.1 | 0.1 | 12.7 | 0.0 | 80.0 |
| | Rank | 14 | 14 | 2 | 14 | 1 |
| **Norfolk** | # | 651,374 | 5,181 | 325 | 852 | 186 |
| | % | 10.5 | 9.3 | 6.3 | 16.4 | 57.2 |
| | Rank | 5 | 5 | 11 | 7 | 3 |
| **Plymouth** | # | 462,347 | 3,330 | 259 | 610 | 139 |
| | % | 7.4 | 6.0 | 7.8 | 18.3 | 53.7 |
| | Rank | 7 | 8 | 6 | 3 | 7 |
| **Suffolk** | # | 653,219 | 8,529 | 742 | 1,456 | 308 |
| | % | 10.5 | 15.4 | 8.7 | 17.1 | 41.5 |
| | Rank | 4 | 2 | 4 | 5 | 14 |
| **Worcester** | # | 735,357 | 6,684 | 434 | 1,199 | 182 |
| | % | 11.8 | 12.1 | 6.5 | 17.9 | 41.9 |
| | Rank | 2 | 3 | 10 | 4 | 13 |

[1] Previous population estimates were used to calculate the 1997 deaths rates and differ slightly from the population numbers appearing elsewhere in this publication.

[2] The percentages and ranks in the Medical Examiner Certified Deaths column and the Referred–Not Certified by Medical Examiner column are based on the totals in the Occurrence Deaths column.

[3] The percentages and ranks of natural cause deaths certified by medical examiners are based on the total number of medical examiner certified deaths for each county.

# Table C-14A. Selected Causes of Death by Municipality, 1997

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abington | 121 | 434.4 | 41 | 30 | 6 | 3 | 10 | 2 | 0 | 5 | 9 | 1 | 1 |
| Acton | 65 | 232.1 | 16 | 15 | 2 | 2 | 5 | 0 | 0 | 5 | 3 | 1 | 2 |
| Acushnet | 99 | 401.9 | 36 | 26 | 6 | 1 | 3 | 2 | 0 | 2 | 4 | 3 | 1 |
| Adams | 127 | 406.8 | 51 | 25 | 6 | 2 | 10 | 1 | 0 | 9 | 5 | 0 | 0 |
| Agawam | 279 | 402.3 | 70 | 68 | 20 | 5 | 16 | 5 | 0 | 17 | 25 | 7 | 1 |
| Alford | 7 | 277.5 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Amesbury | 142 | 465.2 | 46 | 32 | 8 | 2 | 11 | 2 | 0 | 3 | 7 | 6 | 2 |
| Amherst | 120 | 302.8 | 33 | 26 | 8 | 1 | 7 | 3 | 0 | 3 | 8 | 2 | 2 |
| Andover | 204 | 346.6 | 60 | 50 | 13 | 7 | 16 | 1 | 0 | 6 | 8 | 7 | 2 |
| Arlington | 434 | 332.1 | 136 | 105 | 25 | 13 | 41 | 1 | 0 | 14 | 17 | 11 | 2 |
| Ashburnham | 32 | 378.5 | 11 | 7 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| Ashby | 12 | 270.6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ashfield | 17 | 375.1 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Ashland | 92 | 451.1 | 27 | 34 | 8 | 3 | 3 | 0 | 0 | 4 | 6 | 1 | 2 |
| Athol | 135 | 552.8 | 42 | 31 | 4 | 3 | 13 | 1 | 0 | 3 | 5 | 1 | 2 |
| Attleboro | 341 | 465.4 | 109 | 74 | 24 | 5 | 23 | 5 | 0 | 21 | 19 | 6 | 3 |
| Auburn | 163 | 410.0 | 53 | 47 | 12 | 6 | 9 | 0 | 0 | 5 | 7 | 2 | 1 |
| Avon | 63 | 625.4 | 20 | 23 | 8 | 2 | 2 | 1 | 0 | 3 | 3 | 2 | 0 |
| Ayer | 80 | 654.3 | 19 | 14 | 0 | 3 | 6 | 0 | 0 | 2 | 4 | 5 | 0 |
| Barnstable | 477 | 413.7 | 121 | 137 | 44 | 9 | 38 | 4 | 1 | 9 | 20 | 15 | 5 |
| Barre | 41 | 491.0 | 16 | 9 | 5 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 |
| Becket | 7 | 307.8 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bedford | 127 | 395.7 | 30 | 28 | 5 | 4 | 8 | 3 | 0 | 14 | 6 | 1 | 0 |
| Belchertown | 75 | 380.8 | 25 | 20 | 5 | 3 | 8 | 2 | 0 | 3 | 3 | 1 | 3 |
| Bellingham | 76 | 392.6 | 21 | 28 | 7 | 2 | 3 | 3 | 0 | 3 | 3 | 3 | 0 |
| Belmont | 216 | 267.7 | 59 | 52 | 11 | 7 | 19 | 1 | 0 | 16 | 9 | 2 | 2 |
| Berkley | 16 | 307.5 | 3 | 7 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| Berlin | 15 | 351.3 | 6 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 1 |
| Bernardston | 20 | 307.8 | 11 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Beverly | 378 | 390.2 | 137 | 73 | 29 | 5 | 40 | 1 | 2 | 27 | 19 | 4 | 3 |
| Billerica | 237 | 489.9 | 73 | 63 | 18 | 5 | 12 | 5 | 0 | 10 | 10 | 6 | 0 |
| Blackstone | 55 | 422.8 | 19 | 15 | 2 | 1 | 2 | 0 | 1 | 2 | 2 | 1 | 0 |
| Blandford | 9 | 479.9 | 1 | 3 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bolton | 10 | 250.0 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Boston | 4546 | 532.7 | 1201 | 1094 | 280 | 93 | 246 | 37 | 35 | 256 | 167 | 120 | 55 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bourne | 181 | 434.7 | 55 | 45 | 12 | 3 | 14 | 2 | 0 | 11 | 7 | 3 | 2 |
| Boxborough | 13 | 365.0 | 6 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Boxford | 28 | 252.7 | 9 | 5 | 0 | 0 | 4 | 0 | 0 | 3 | 2 | 0 | 0 |
| Boylston | 21 | 276.9 | 6 | 6 | 1 | 0 | 4 | 1 | 0 | 1 | 2 | 0 | 0 |
| Braintree | 383 | 429.3 | 121 | 89 | 27 | 9 | 21 | 5 | 0 | 20 | 17 | 6 | 5 |
| Brewster | 129 | 367.7 | 38 | 27 | 12 | 0 | 12 | 0 | 0 | 7 | 4 | 8 | 0 |
| Bridgewater | 129 | 436.6 | 47 | 31 | 11 | 3 | 10 | 3 | 0 | 5 | 8 | 1 | 3 |
| Brimfield | 41 | 825.1 | 5 | 14 | 6 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 |
| Brockton | 865 | 536.7 | 265 | 222 | 67 | 18 | 38 | 5 | 5 | 31 | 50 | 22 | 5 |
| Brookfield | 21 | 317.7 | 9 | 6 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 0 |
| Brookline | 381 | 262.3 | 124 | 86 | 19 | 7 | 24 | 0 | 3 | 26 | 11 | 6 | 5 |
| Buckland | 16 | 405.6 | 3 | 4 | 3 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 0 |
| Burlington | 142 | 411.0 | 45 | 40 | 12 | 0 | 8 | 0 | 0 | 1 | 4 | 4 | 2 |
| Cambridge | 649 | 399.0 | 170 | 169 | 44 | 26 | 33 | 3 | 2 | 32 | 24 | 24 | 12 |
| Canton | 200 | 484.1 | 81 | 36 | 14 | 2 | 10 | 1 | 0 | 11 | 10 | 2 | 2 |
| Carlisle | 12 | 198.4 | 2 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Carver | 92 | 532.2 | 30 | 29 | 9 | 2 | 2 | 1 | 0 | 1 | 10 | 2 | 1 |
| Charlemont | 9 | 464.6 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| Charlton | 72 | 484.1 | 28 | 21 | 1 | 3 | 2 | 1 | 0 | 3 | 1 | 0 | 1 |
| Chatham | 113 | 350.0 | 34 | 28 | 4 | 3 | 10 | 0 | 0 | 2 | 4 | 2 | 0 |
| Chelmsford | 246 | 416.7 | 77 | 73 | 21 | 6 | 11 | 2 | 0 | 13 | 10 | 4 | 3 |
| Chelsea | 282 | 619.5 | 67 | 83 | 35 | 2 | 11 | 3 | 1 | 8 | 17 | 12 | 4 |
| Cheshire | 13 | 185.2 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 |
| Chester | 8 | 454.4 | 2 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Chesterfield | 9 | 649.4 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Chicopee | 594 | 473.6 | 202 | 140 | 42 | 8 | 35 | 6 | 1 | 25 | 23 | 15 | 5 |
| Chilmark | 11 | 683.8 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Clarksburg | 15 | 264.7 | 4 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 |
| Clinton | 128 | 435.8 | 32 | 31 | 5 | 3 | 5 | 2 | 0 | 7 | 11 | 5 | 0 |
| Cohasset | 65 | 393.7 | 21 | 15 | 5 | 0 | 1 | 0 | 0 | 5 | 1 | 2 | 0 |
| Colrain | 14 | 439.3 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| Concord | 155 | 328.4 | 48 | 32 | 8 | 3 | 16 | 0 | 0 | 19 | 5 | 0 | 3 |
| Conway | 14 | 318.7 | 4 | 4 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 |
| Cummington | 6 | 309.2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Dalton | 73 | 442.7 | 25 | 12 | 2 | 6 | 1 | 0 | 0 | 5 | 6 | 2 | 0 |
| Danvers | 264 | 444.9 | 99 | 58 | 18 | 6 | 19 | 0 | 0 | 15 | 6 | 3 | 2 |
| Dartmouth | 251 | 347.3 | 89 | 67 | 14 | 8 | 23 | 3 | 0 | 8 | 11 | 7 | 1 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dedham | 246 | 443.7 | 74 | 70 | 20 | 4 | 14 | 1 | 0 | 15 | 16 | 6 | 1 |
| Deerfield | 34 | 348.9 | 11 | 12 | 8 | 1 | 0 | 2 | 0 | 3 | 1 | 0 | 1 |
| Dennis | 213 | 406.5 | 68 | 49 | 16 | 1 | 11 | 2 | 0 | 6 | 9 | 5 | 1 |
| Dighton | 56 | 465.1 | 20 | 10 | 1 | 0 | 6 | 2 | 0 | 6 | 3 | 0 | 0 |
| Douglas | 29 | 378.5 | 7 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Dover | 30 | 229.0 | 13 | 7 | 1 | 2 | 3 | 0 | 0 | 2 | 1 | 0 | 0 |
| Dracut | 215 | 510.0 | 71 | 55 | 14 | 8 | 12 | 5 | 0 | 9 | 19 | 1 | 2 |
| Dudley | 74 | 419.1 | 24 | 25 | 5 | 3 | 3 | 0 | 0 | 0 | 3 | 3 | 2 |
| Dunstable | 9 | 382.6 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Duxbury | 112 | 370.4 | 36 | 28 | 5 | 2 | 8 | 0 | 0 | 5 | 3 | 1 | 2 |
| East Bridgewater | 104 | 597.5 | 34 | 27 | 9 | 2 | 5 | 1 | 0 | 4 | 9 | 1 | 0 |
| East Brookfield | 6 | 156.6 | 3 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| East Longmeadow | 176 | 409.1 | 57 | 29 | 5 | 4 | 16 | 1 | 0 | 11 | 8 | 4 | 2 |
| Eastham | 47 | 344.9 | 12 | 12 | 1 | 2 | 2 | 0 | 0 | 1 | 2 | 4 | 0 |
| Easthampton | 144 | 495.2 | 56 | 32 | 10 | 3 | 4 | 2 | 0 | 8 | 8 | 2 | 1 |
| Easton | 136 | 433.3 | 37 | 36 | 11 | 2 | 6 | 2 | 0 | 9 | 8 | 3 | 0 |
| Edgartown | 27 | 379.4 | 6 | 12 | 4 | 0 | 4 | 0 | 0 | 1 | 1 | 0 | 0 |
| Egremont | 12 | 473.3 | 0 | 4 | 2 | 0 | 2 | 3 | 0 | 0 | 1 | 0 | 0 |
| Erving | 20 | 491.5 | 9 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 1 |
| Essex | 17 | 325.0 | 4 | 7 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| Everett | 314 | 391.5 | 106 | 86 | 28 | 2 | 13 | 2 | 0 | 8 | 15 | 13 | 3 |
| Fairhaven | 217 | 492.3 | 88 | 51 | 11 | 4 | 8 | 1 | 0 | 3 | 15 | 4 | 1 |
| Fall River | 1112 | 521.1 | 394 | 261 | 64 | 15 | 75 | 7 | 3 | 53 | 33 | 35 | 13 |
| Falmouth | 350 | 373.5 | 104 | 98 | 31 | 7 | 25 | 2 | 0 | 15 | 26 | 1 | 0 |
| Fitchburg | 430 | 510.9 | 117 | 115 | 39 | 8 | 21 | 7 | 0 | 30 | 20 | 10 | 3 |
| Florida | 5 | 412.9 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Foxborough | 123 | 467.3 | 35 | 40 | 14 | 4 | 8 | 1 | 0 | 3 | 7 | 4 | 0 |
| Framingham | 548 | 389.5 | 154 | 141 | 28 | 20 | 31 | 5 | 1 | 33 | 24 | 17 | 2 |
| Franklin | 154 | 476.3 | 41 | 44 | 12 | 2 | 12 | 3 | 1 | 8 | 3 | 5 | 1 |
| Freetown | 41 | 310.7 | 10 | 9 | 2 | 0 | 1 | 1 | 0 | 2 | 3 | 2 | 0 |
| Gardner | 221 | 524.2 | 79 | 43 | 13 | 2 | 13 | 2 | 0 | 7 | 11 | 4 | 0 |
| Gay Head | 2 | 967.8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgetown | 38 | 288.7 | 11 | 11 | 4 | 1 | 2 | 0 | 0 | 0 | 3 | 3 | 0 |
| Gill | 10 | 371.6 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 1 |

# Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gloucester | 322 | 516.2 | 99 | 88 | 20 | 7 | 15 | 2 | 0 | 8 | 15 | 8 | 2 |
| Goshen | 10 | 540.1 | 4 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Gosnold | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grafton | 99 | 370.2 | 25 | 30 | 5 | 2 | 9 | 1 | 0 | 4 | 1 | 4 | 0 |
| Granby | 49 | 432.9 | 12 | 14 | 6 | 1 | 6 | 0 | 0 | 1 | 1 | 1 | 0 |
| Granville | 5 | 143.5 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Great Barrington | 108 | 537.5 | 33 | 26 | 7 | 1 | 5 | 1 | 0 | 3 | 5 | 5 | 3 |
| Greenfield | 232 | 482.4 | 50 | 50 | 12 | 3 | 17 | 5 | 0 | 24 | 14 | 6 | 0 |
| Groton | 45 | 339.8 | 6 | 11 | 2 | 1 | 4 | 1 | 0 | 1 | 2 | 2 | 0 |
| Groveland | 38 | 464.4 | 16 | 9 | 4 | 1 | 1 | 0 | 0 | 1 | 3 | 1 | 0 |
| Hadley | 50 | 361.6 | 15 | 13 | 4 | 1 | 3 | 0 | 0 | 2 | 2 | 2 | 1 |
| Halifax | 66 | 506.7 | 20 | 16 | 1 | 1 | 2 | 1 | 0 | 2 | 9 | 0 | 0 |
| Hamilton | 53 | 357.1 | 19 | 18 | 2 | 3 | 1 | 1 | 0 | 1 | 2 | 1 | 1 |
| Hampden | 40 | 450.4 | 10 | 10 | 1 | 2 | 4 | 0 | 0 | 2 | 3 | 0 | 1 |
| Hancock | 3 | 198.0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Hanover | 78 | 390.3 | 26 | 21 | 9 | 1 | 4 | 3 | 0 | 4 | 6 | 1 | 1 |
| Hanson | 62 | 451.8 | 24 | 15 | 2 | 3 | 4 | 3 | 0 | 0 | 4 | 1 | 0 |
| Hardwick | 30 | 579.0 | 8 | 11 | 3 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 |
| Harvard | 14 | 158.9 | 5 | 5 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| Harwich | 180 | 427.0 | 56 | 50 | 6 | 5 | 7 | 0 | 0 | 6 | 6 | 8 | 2 |
| Hatfield | 34 | 466.1 | 14 | 9 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Haverhill | 514 | 477.4 | 167 | 114 | 26 | 12 | 49 | 6 | 0 | 20 | 19 | 11 | 3 |
| Hawley | 3 | 285.7 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heath | 5 | 552.5 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Hingham | 170 | 361.4 | 41 | 53 | 15 | 2 | 8 | 3 | 0 | 8 | 9 | 6 | 3 |
| Hinsdale | 35 | 638.1 | 13 | 3 | 1 | 0 | 1 | 0 | 0 | 6 | 3 | 3 | 0 |
| Holbrook | 105 | 446.2 | 28 | 30 | 13 | 2 | 3 | 0 | 0 | 5 | 11 | 3 | 0 |
| Holden | 117 | 316.7 | 38 | 28 | 4 | 5 | 6 | 1 | 0 | 7 | 5 | 2 | 1 |
| Holland | 9 | 298.3 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 |
| Holliston | 74 | 405.7 | 18 | 22 | 7 | 2 | 5 | 0 | 0 | 2 | 4 | 2 | 0 |
| Holyoke | 522 | 630.9 | 168 | 116 | 31 | 13 | 41 | 3 | 5 | 20 | 21 | 15 | 2 |
| Hopedale | 45 | 414.4 | 14 | 10 | 3 | 4 | 1 | 0 | 0 | 2 | 3 | 1 | 0 |
| Hopkinton | 63 | 422.6 | 19 | 13 | 2 | 2 | 7 | 2 | 1 | 3 | 2 | 2 | 1 |
| Hubbardston | 9 | 243.5 | 2 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Hudson | 103 | 348.0 | 25 | 36 | 9 | 2 | 8 | 0 | 0 | 2 | 6 | 4 | 1 |
| Hull | 93 | 557.3 | 21 | 29 | 8 | 3 | 9 | 4 | 0 | 1 | 6 | 1 | 2 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Huntington | 10 | 229.0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| Ipswich | 115 | 400.0 | 28 | 33 | 4 | 4 | 8 | 1 | 0 | 5 | 5 | 3 | 2 |
| Kingston | 91 | 420.3 | 32 | 19 | 4 | 1 | 12 | 2 | 0 | 4 | 2 | 2 | 0 |
| Lakeville | 70 | 449.2 | 20 | 21 | 5 | 1 | 4 | 1 | 0 | 4 | 2 | 3 | 1 |
| Lancaster | 41 | 354.8 | 8 | 9 | 3 | 0 | 3 | 0 | 0 | 0 | 5 | 2 | 0 |
| Lanesborough | 27 | 529.6 | 11 | 5 | 3 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 2 |
| Lawrence | 539 | 444.9 | 179 | 109 | 31 | 8 | 39 | 6 | 5 | 28 | 20 | 18 | 3 |
| Lee | 73 | 514.9 | 20 | 20 | 7 | 2 | 4 | 0 | 0 | 8 | 3 | 3 | 0 |
| Leicester | 96 | 455.5 | 28 | 24 | 6 | 3 | 9 | 3 | 0 | 6 | 4 | 2 | 1 |
| Lenox | 74 | 368.1 | 17 | 19 | 5 | 2 | 5 | 0 | 0 | 7 | 2 | 1 | 0 |
| Leominster | 323 | 416.6 | 93 | 86 | 23 | 9 | 26 | 3 | 1 | 22 | 17 | 9 | 2 |
| Leverett | 7 | 279.8 | 3 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lexington | 264 | 262.7 | 84 | 64 | 16 | 6 | 23 | 2 | 0 | 12 | 7 | 5 | 0 |
| Leyden | 5 | 285.5 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lincoln | 36 | 248.1 | 8 | 14 | 4 | 1 | 3 | 0 | 0 | 3 | 1 | 1 | 0 |
| Littleton | 72 | 477.1 | 22 | 21 | 6 | 2 | 4 | 2 | 0 | 0 | 4 | 4 | 1 |
| Longmeadow | 149 | 340.0 | 40 | 42 | 8 | 3 | 11 | 1 | 0 | 17 | 3 | 5 | 1 |
| Lowell | 971 | 550.6 | 293 | 216 | 57 | 15 | 65 | 13 | 9 | 43 | 51 | 28 | 10 |
| Ludlow | 184 | 405.3 | 56 | 49 | 11 | 3 | 8 | 0 | 0 | 8 | 8 | 8 | 2 |
| Lunenburg | 48 | 265.8 | 16 | 12 | 2 | 2 | 1 | 0 | 1 | 0 | 3 | 4 | 0 |
| Lynn | 829 | 571.0 | 239 | 207 | 66 | 9 | 47 | 12 | 5 | 39 | 43 | 14 | 7 |
| Lynnfield | 86 | 271.7 | 15 | 29 | 4 | 5 | 6 | 0 | 0 | 3 | 4 | 2 | 2 |
| Malden | 491 | 436.5 | 135 | 126 | 32 | 11 | 42 | 2 | 2 | 32 | 16 | 12 | 3 |
| Manchester | 51 | 333.9 | 13 | 13 | 3 | 1 | 3 | 0 | 0 | 2 | 3 | 1 | 1 |
| Mansfield | 99 | 454.5 | 29 | 24 | 7 | 1 | 6 | 2 | 0 | 8 | 2 | 4 | 1 |
| Marblehead | 152 | 320.7 | 32 | 48 | 10 | 2 | 12 | 0 | 0 | 9 | 3 | 6 | 3 |
| Marion | 54 | 590.7 | 19 | 11 | 3 | 2 | 2 | 0 | 0 | 1 | 4 | 1 | 1 |
| Marlborough | 244 | 418.3 | 68 | 73 | 25 | 5 | 15 | 2 | 0 | 15 | 9 | 5 | 3 |
| Marshfield | 167 | 513.1 | 49 | 49 | 20 | 4 | 4 | 2 | 0 | 6 | 5 | 8 | 0 |
| Mashpee | 80 | 368.2 | 13 | 20 | 4 | 1 | 6 | 1 | 0 | 3 | 4 | 2 | 2 |
| Mattapoisett | 45 | 265.9 | 18 | 10 | 5 | 1 | 3 | 2 | 0 | 2 | 1 | 0 | 0 |
| Maynard | 83 | 385.1 | 26 | 20 | 7 | 1 | 2 | 1 | 0 | 7 | 7 | 2 | 1 |
| Medfield | 50 | 314.2 | 16 | 9 | 2 | 3 | 3 | 0 | 0 | 3 | 2 | 0 | 1 |
| Medford | 622 | 430.6 | 190 | 155 | 43 | 6 | 42 | 3 | 1 | 37 | 23 | 11 | 5 |
| Medway | 83 | 472.9 | 25 | 22 | 5 | 3 | 5 | 0 | 0 | 2 | 2 | 1 | 1 |
| Melrose | 269 | 391.4 | 91 | 60 | 13 | 5 | 17 | 1 | 0 | 17 | 10 | 4 | 1 |
| Mendon | 30 | 482.3 | 9 | 10 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |

# Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Merrimac | 30 | 306.2 | 10 | 8 | 2 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 0 |
| Methuen | 430 | 461.3 | 133 | 113 | 30 | 7 | 25 | 6 | 1 | 28 | 17 | 14 | 3 |
| Middleborough | 151 | 474.6 | 42 | 39 | 3 | 5 | 4 | 1 | 0 | 7 | 2 | 7 | 3 |
| Middlefield | 2 | 282.8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middleton | 45 | 496.3 | 11 | 12 | 1 | 3 | 6 | 1 | 0 | 1 | 2 | 0 | 1 |
| Milford | 231 | 465.3 | 66 | 50 | 13 | 6 | 15 | 5 | 0 | 16 | 11 | 5 | 2 |
| Millbury | 138 | 436.9 | 40 | 24 | 6 | 4 | 8 | 3 | 0 | 9 | 2 | 3 | 0 |
| Millis | 35 | 351.2 | 11 | 7 | 1 | 2 | 4 | 0 | 0 | 3 | 1 | 1 | 0 |
| Millville | 10 | 299.5 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Milton | 262 | 342.9 | 82 | 68 | 19 | 3 | 19 | 1 | 0 | 16 | 6 | 5 | 0 |
| Monroe | 2 | 440.2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Monson | 66 | 472.8 | 23 | 17 | 9 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 0 |
| Montague | 101 | 626.5 | 26 | 21 | 4 | 1 | 5 | 2 | 0 | 5 | 3 | 5 | 1 |
| Monterey | 9 | 458.0 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Montgomery | 6 | 280.4 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Mt. Washington | 2 | 503.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nahant | 42 | 321.2 | 14 | 13 | 5 | 2 | 2 | 0 | 0 | 1 | 0 | 2 | 0 |
| Nantucket | 86 | 567.3 | 30 | 21 | 5 | 2 | 10 | 1 | 0 | 3 | 3 | 1 | 1 |
| Natick | 259 | 406.0 | 82 | 61 | 22 | 5 | 23 | 1 | 1 | 16 | 11 | 6 | 1 |
| Needham | 287 | 326.9 | 87 | 80 | 15 | 7 | 24 | 0 | 0 | 17 | 9 | 5 | 2 |
| New Ashford | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Bedford | 1032 | 469.9 | 346 | 234 | 60 | 21 | 65 | 6 | 3 | 28 | 45 | 39 | 6 |
| New Braintree | 9 | 914.7 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| New Marlborough | 8 | 263.5 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| New Salem | 7 | 379.0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| Newbury | 41 | 392.2 | 19 | 9 | 4 | 0 | 3 | 1 | 0 | 0 | 2 | 1 | 0 |
| Newburyport | 184 | 561.0 | 63 | 44 | 11 | 3 | 7 | 1 | 0 | 10 | 12 | 4 | 3 |
| Newton | 645 | 301.3 | 189 | 159 | 29 | 15 | 39 | 5 | 1 | 50 | 25 | 17 | 5 |
| Norfolk | 42 | 487.6 | 7 | 16 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 3 | 3 |
| North Adams | 192 | 509.0 | 55 | 48 | 13 | 2 | 10 | 0 | 0 | 8 | 10 | 8 | 3 |
| North Andover | 216 | 442.6 | 72 | 50 | 13 | 6 | 20 | 3 | 0 | 6 | 7 | 4 | 1 |
| North Attleboro | 175 | 421.5 | 60 | 49 | 15 | 5 | 8 | 2 | 0 | 9 | 10 | 7 | 0 |
| North Brookfield | 49 | 470.7 | 12 | 15 | 3 | 3 | 1 | 2 | 0 | 4 | 1 | 2 | 1 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| North Reading | 67 | 307.8 | 21 | 18 | 6 | 2 | 3 | 1 | 0 | 2 | 2 | 1 | 1 |
| Northampton | 321 | 446.8 | 95 | 64 | 13 | 1 | 20 | 1 | 0 | 29 | 13 | 5 | 1 |
| Northborough | 67 | 330.3 | 14 | 19 | 6 | 0 | 3 | 1 | 0 | 5 | 5 | 0 | 1 |
| Northbridge | 170 | 546.2 | 53 | 27 | 5 | 4 | 13 | 3 | 0 | 16 | 12 | 6 | 2 |
| Northfield | 25 | 413.9 | 8 | 6 | 2 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 1 |
| Norton | 96 | 489.1 | 30 | 24 | 7 | 3 | 8 | 1 | 0 | 2 | 5 | 3 | 1 |
| Norwell | 72 | 335.6 | 25 | 18 | 5 | 5 | 2 | 0 | 0 | 3 | 2 | 1 | 0 |
| Norwood | 311 | 439.1 | 88 | 93 | 22 | 12 | 12 | 0 | 0 | 5 | 14 | 9 | 4 |
| Oak Bluffs | 55 | 645.1 | 15 | 9 | 2 | 1 | 4 | 0 | 0 | 3 | 2 | 0 | 1 |
| Oakham | 14 | 665.4 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Orange | 67 | 495.6 | 23 | 17 | 4 | 0 | 0 | 5 | 0 | 3 | 4 | 0 | 1 |
| Orleans | 106 | 374.6 | 24 | 31 | 3 | 0 | 9 | 0 | 0 | 4 | 5 | 2 | 0 |
| Otis | 11 | 668.2 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oxford | 85 | 418.3 | 23 | 29 | 11 | 4 | 2 | 3 | 0 | 4 | 0 | 3 | 1 |
| Palmer | 137 | 569.1 | 44 | 37 | 8 | 3 | 9 | 1 | 0 | 6 | 3 | 1 | 3 |
| Paxton | 30 | 339.2 | 11 | 6 | 4 | 0 | 4 | 1 | 0 | 0 | 2 | 0 | 0 |
| Peabody | 484 | 455.1 | 146 | 126 | 36 | 9 | 28 | 7 | 1 | 26 | 24 | 13 | 3 |
| Pelham | 11 | 377.2 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Pembroke | 85 | 412.6 | 19 | 24 | 6 | 3 | 4 | 5 | 0 | 4 | 5 | 3 | 2 |
| Pepperell | 55 | 482.1 | 12 | 14 | 1 | 1 | 5 | 2 | 0 | 2 | 6 | 1 | 0 |
| Peru | 2 | 201.6 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Petersham | 13 | 475.9 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| Phillipston | 8 | 420.8 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Pittsfield | 544 | 437.3 | 174 | 129 | 33 | 15 | 33 | 4 | 0 | 23 | 35 | 15 | 1 |
| Plainfield | 4 | 354.9 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plainville | 50 | 391.4 | 16 | 17 | 5 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 1 |
| Plymouth | 442 | 489.0 | 137 | 109 | 35 | 8 | 21 | 6 | 1 | 27 | 27 | 6 | 2 |
| Plympton | 11 | 387.6 | 3 | 5 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Princeton | 16 | 274.9 | 7 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 0 |
| Provincetown | 64 | 748.4 | 21 | 9 | 3 | 0 | 3 | 0 | 0 | 1 | 4 | 2 | 0 |
| Quincy | 954 | 522.5 | 322 | 221 | 66 | 15 | 51 | 9 | 2 | 45 | 39 | 22 | 8 |
| Randolph | 285 | 434.3 | 110 | 76 | 24 | 3 | 14 | 4 | 3 | 17 | 10 | 4 | 2 |
| Raynham | 79 | 383.1 | 33 | 19 | 6 | 1 | 7 | 0 | 0 | 3 | 5 | 0 | 0 |
| Reading | 169 | 312.2 | 57 | 41 | 4 | 3 | 12 | 2 | 1 | 7 | 7 | 1 | 2 |
| Rehoboth | 42 | 305.0 | 13 | 11 | 1 | 2 | 2 | 1 | 0 | 2 | 0 | 1 | 0 |
| Revere | 510 | 563.4 | 154 | 122 | 33 | 6 | 36 | 2 | 3 | 23 | 19 | 16 | 9 |
| Richmond | 16 | 350.1 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rochester | 19 | 295.5 | 9 | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 0 |
| Rockland | 156 | 518.1 | 47 | 37 | 5 | 6 | 6 | 1 | 1 | 8 | 12 | 4 | 1 |
| Rockport | 90 | 338.9 | 28 | 17 | 3 | 2 | 7 | 1 | 0 | 4 | 4 | 5 | 0 |
| Rowe | 4 | 374.0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rowley | 34 | 540.3 | 12 | 7 | 3 | 0 | 2 | 1 | 0 | 0 | 3 | 2 | 1 |
| Royalston | 9 | 478.9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 |
| Russell | 8 | 324.0 | 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| Rutland | 25 | 372.7 | 6 | 8 | 3 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 1 |
| Salem | 390 | 465.2 | 108 | 116 | 30 | 9 | 31 | 3 | 0 | 20 | 18 | 5 | 2 |
| Salisbury | 75 | 606.8 | 23 | 19 | 9 | 0 | 5 | 2 | 0 | 1 | 5 | 2 | 0 |
| Sandisfield | 9 | 594.5 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 |
| Sandwich | 148 | 385.1 | 33 | 45 | 13 | 3 | 11 | 5 | 0 | 7 | 8 | 3 | 1 |
| Saugus | 232 | 355.7 | 85 | 64 | 19 | 8 | 12 | 1 | 2 | 12 | 7 | 4 | 2 |
| Savoy | 1 | 136.1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scituate | 152 | 383.0 | 50 | 38 | 12 | 4 | 10 | 1 | 0 | 6 | 8 | 5 | 2 |
| Seekonk | 85 | 315.0 | 23 | 26 | 4 | 2 | 4 | 1 | 0 | 6 | 3 | 1 | 1 |
| Sharon | 89 | 294.1 | 31 | 25 | 4 | 2 | 6 | 0 | 1 | 1 | 4 | 3 | 2 |
| Sheffield | 25 | 421.1 | 11 | 6 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| Shelburne | 20 | 440.1 | 4 | 5 | 3 | 0 | 3 | 0 | 0 | 2 | 3 | 2 | 0 |
| Sherborn | 18 | 238.8 | 5 | 4 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 |
| Shirley | 32 | 402.1 | 10 | 10 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| Shrewsbury | 246 | 410.2 | 58 | 75 | 23 | 3 | 11 | 3 | 0 | 10 | 14 | 5 | 0 |
| Shutesbury | 3 | 86.7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Somerset | 167 | 323.0 | 59 | 38 | 8 | 3 | 10 | 1 | 1 | 6 | 11 | 3 | 0 |
| Somerville | 605 | 433.7 | 191 | 157 | 49 | 8 | 35 | 5 | 0 | 23 | 33 | 15 | 9 |
| South Hadley | 177 | 401.0 | 54 | 38 | 7 | 4 | 11 | 2 | 0 | 10 | 16 | 2 | 1 |
| Southampton | 26 | 309.4 | 5 | 11 | 2 | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 0 |
| Southborough | 30 | 264.1 | 8 | 15 | 8 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 |
| Southbridge | 175 | 437.7 | 56 | 45 | 7 | 4 | 11 | 2 | 0 | 6 | 6 | 7 | 0 |
| Southwick | 69 | 610.0 | 27 | 19 | 5 | 0 | 4 | 1 | 0 | 1 | 1 | 0 | 1 |
| Spencer | 95 | 482.1 | 27 | 28 | 13 | 1 | 3 | 1 | 0 | 5 | 6 | 3 | 5 |
| Springfield | 1483 | 603.8 | 416 | 332 | 95 | 28 | 80 | 12 | 9 | 70 | 75 | 51 | 11 |
| Sterling | 41 | 443.3 | 14 | 16 | 4 | 2 | 2 | 0 | 0 | 1 | 1 | 1 | 0 |
| Stockbridge | 17 | 189.5 | 5 | 3 | 1 | 0 | 3 | 0 | 0 | 1 | 3 | 0 | 0 |
| Stoneham | 206 | 412.2 | 46 | 64 | 24 | 2 | 10 | 2 | 0 | 7 | 13 | 6 | 1 |
| Stoughton | 249 | 439.7 | 71 | 65 | 20 | 4 | 15 | 2 | 1 | 15 | 11 | 4 | 2 |
| Stow | 27 | 348.1 | 8 | 9 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sturbridge | 66 | 452.9 | 28 | 19 | 4 | 1 | 5 | 0 | 0 | 2 | 1 | 1 | 1 |
| Sudbury | 93 | 374.7 | 33 | 25 | 6 | 3 | 3 | 0 | 0 | 3 | 3 | 1 | 2 |
| Sunderland | 15 | 309.8 | 4 | 4 | 2 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 |
| Sutton | 40 | 337.9 | 12 | 13 | 4 | 1 | 0 | 2 | 0 | 2 | 1 | 2 | 0 |
| Swampscott | 148 | 318.9 | 58 | 38 | 10 | 6 | 8 | 1 | 0 | 10 | 1 | 3 | 0 |
| Swansea | 109 | 335.0 | 35 | 29 | 5 | 2 | 8 | 0 | 2 | 5 | 3 | 4 | 0 |
| Taunton | 513 | 524.4 | 179 | 132 | 42 | 9 | 22 | 10 | 0 | 21 | 32 | 13 | 6 |
| Templeton | 57 | 409.6 | 16 | 21 | 4 | 2 | 3 | 0 | 0 | 1 | 3 | 2 | 0 |
| Tewksbury | 211 | 479.5 | 58 | 58 | 19 | 3 | 7 | 1 | 0 | 10 | 10 | 3 | 2 |
| Tisbury | 40 | 496.5 | 18 | 9 | 2 | 0 | 3 | 0 | 0 | 0 | 2 | 1 | 0 |
| Tolland | 2 | 346.1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Topsfield | 38 | 228.8 | 11 | 9 | 1 | 2 | 3 | 0 | 0 | 3 | 1 | 2 | 0 |
| Townsend | 52 | 515.7 | 13 | 14 | 3 | 2 | 2 | 0 | 0 | 5 | 5 | 2 | 1 |
| Truro | 20 | 297.7 | 4 | 3 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 |
| Tyngsborough | 41 | 414.9 | 13 | 11 | 4 | 1 | 0 | 2 | 0 | 0 | 4 | 2 | 0 |
| Tyringham | 2 | 144.8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Upton | 49 | 491.5 | 12 | 12 | 1 | 3 | 3 | 0 | 0 | 2 | 0 | 1 | 1 |
| Uxbridge | 89 | 461.4 | 30 | 24 | 7 | 1 | 7 | 0 | 1 | 3 | 2 | 2 | 2 |
| Wakefield | 210 | 334.5 | 58 | 69 | 19 | 7 | 7 | 1 | 0 | 12 | 11 | 1 | 0 |
| Wales | 8 | 491.0 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Walpole | 155 | 386.3 | 48 | 38 | 12 | 2 | 6 | 2 | 0 | 5 | 9 | 4 | 1 |
| Waltham | 483 | 395.1 | 130 | 110 | 20 | 12 | 40 | 3 | 2 | 19 | 20 | 18 | 4 |
| Ware | 103 | 477.6 | 37 | 28 | 9 | 3 | 6 | 1 | 0 | 4 | 0 | 4 | 1 |
| Wareham | 224 | 539.2 | 61 | 61 | 17 | 4 | 15 | 3 | 0 | 15 | 11 | 5 | 5 |
| Warren | 47 | 537.5 | 11 | 14 | 4 | 2 | 3 | 2 | 0 | 1 | 3 | 1 | 0 |
| Warwick | 10 | 729.6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Washington | 5 | 306.3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Watertown | 319 | 534.5 | 98 | 89 | 25 | 5 | 26 | 0 | 0 | 12 | 8 | 9 | 3 |
| Wayland | 80 | 291.8 | 26 | 20 | 6 | 1 | 7 | 0 | 0 | 5 | 1 | 2 | 1 |
| Webster | 189 | 457.7 | 67 | 45 | 9 | 5 | 12 | 2 | 0 | 7 | 9 | 8 | 0 |
| Wellesley | 201 | 274.6 | 60 | 46 | 14 | 5 | 22 | 0 | 0 | 6 | 10 | 2 | 0 |
| Wellfleet | 25 | 515.9 | 4 | 10 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| Wendell | 3 | 521.0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wenham | 31 | 313.4 | 7 | 7 | 2 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 0 |
| West Boylston | 62 | 355.8 | 18 | 19 | 3 | 3 | 2 | 0 | 0 | 3 | 4 | 3 | 0 |
| West Bridgewater | 62 | 379.1 | 16 | 20 | 6 | 2 | 3 | 0 | 0 | 5 | 8 | 0 | 0 |

## Table C-14A. Selected Causes of Death by Municipality, 1997 (continued)

| Municipality | Total Deaths | Age-Adjusted Death Rate[1] | Heart Disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor Vehicle | Homicide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| West Brookfield | 32 | 356.1 | 10 | 9 | 3 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 0 |
| West Newbury | 19 | 350.3 | 6 | 6 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Springfield | 260 | 391.7 | 68 | 76 | 14 | 8 | 21 | 1 | 0 | 15 | 10 | 5 | 1 |
| West Stockbridge | 10 | 172.8 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 0 |
| West Tisbury | 6 | 123.7 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Westborough | 155 | 463.2 | 43 | 33 | 5 | 1 | 15 | 0 | 3 | 8 | 6 | 3 | 1 |
| Westfield | 348 | 397.0 | 127 | 94 | 30 | 8 | 20 | 3 | 0 | 9 | 12 | 2 | 8 |
| Westford | 101 | 449.2 | 36 | 26 | 4 | 3 | 3 | 0 | 0 | 7 | 2 | 2 | 1 |
| Westhampton | 8 | 391.1 | 3 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Westminster | 36 | 410.0 | 9 | 13 | 5 | 1 | 2 | 2 | 0 | 0 | 2 | 1 | 0 |
| Weston | 105 | 344.4 | 23 | 27 | 4 | 2 | 16 | 2 | 0 | 8 | 5 | 1 | 2 |
| Westport | 125 | 411.3 | 41 | 33 | 11 | 1 | 7 | 1 | 0 | 6 | 5 | 2 | 3 |
| Westwood | 163 | 454.4 | 44 | 49 | 9 | 5 | 19 | 1 | 1 | 2 | 7 | 1 | 1 |
| Weymouth | 548 | 482.0 | 165 | 131 | 35 | 7 | 29 | 5 | 1 | 30 | 20 | 14 | 6 |
| Whately | 12 | 396.3 | 4 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| Whitman | 89 | 416.9 | 26 | 30 | 7 | 4 | 3 | 1 | 0 | 3 | 3 | 1 | 1 |
| Wilbraham | 129 | 353.8 | 44 | 24 | 7 | 1 | 11 | 0 | 0 | 10 | 5 | 0 | 0 |
| Williamsburg | 17 | 234.8 | 4 | 6 | 3 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 |
| Williamstown | 75 | 339.5 | 17 | 20 | 5 | 1 | 5 | 0 | 0 | 4 | 4 | 0 | 3 |
| Wilmington | 159 | 602.8 | 46 | 39 | 6 | 5 | 8 | 0 | 0 | 6 | 10 | 5 | 4 |
| Winchendon | 91 | 635.3 | 26 | 31 | 5 | 1 | 10 | 1 | 0 | 5 | 2 | 0 | 0 |
| Winchester | 212 | 354.7 | 64 | 47 | 11 | 3 | 22 | 2 | 0 | 11 | 8 | 8 | 0 |
| Windsor | 2 | 103.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Winthrop | 203 | 450.3 | 64 | 50 | 19 | 2 | 9 | 1 | 0 | 7 | 7 | 7 | 1 |
| Woburn | 304 | 428.9 | 97 | 92 | 26 | 5 | 10 | 1 | 0 | 13 | 14 | 7 | 5 |
| Worcester | 1825 | 514.6 | 532 | 424 | 106 | 40 | 113 | 13 | 6 | 126 | 70 | 51 | 12 |
| Worthington | 2 | 75.8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wrentham | 105 | 590.8 | 36 | 25 | 8 | 2 | 4 | 0 | 0 | 3 | 4 | 1 | 1 |
| Yarmouth | 412 | 459.2 | 101 | 101 | 27 | 4 | 37 | 3 | 0 | 20 | 21 | 9 | 5 |

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[1] All rates are age-adjusted using the 1940 US Census standard population. [2] Includes only female breast cancer. [3] Chronic Obstructive Pulmonary Disease

## Table C-14B. Selected Causes of Death by Community Health Network Area (CHNA), 1997

| CHNA (Name and number) | Total Deaths | Age-adjusted death rate[1] | Heart disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor vehicle | Homi-cide | Pneumonia & influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alliance for Community Health (Boston,Chelsea, Revere, Winthrop) (19) | 5920 | 509.6 | 1610 | 1435 | 386 | 110 | 326 | 43 | 42 | 320 | 221 | 161 | 74 |
| Beverly/Gloucester Area (13) | 1095 | 394.6 | 346 | 265 | 65 | 25 | 78 | 6 | 3 | 53 | 51 | 24 | 9 |
| Blue Hills Community Health Alliance (Quincy,20) | 3584 | 439.2 | 1158 | 892 | 256 | 67 | 192 | 33 | 7 | 168 | 146 | 80 | 36 |
| Cambridge/Somerville Area (17) | 2223 | 392.9 | 654 | 572 | 154 | 59 | 154 | 10 | 2 | 97 | 91 | 61 | 28 |
| Cape Cod & Islands CommunityHealth Netwrk (27) | 2772 | 408.9 | 763 | 723 | 192 | 41 | 211 | 22 | 1 | 101 | 128 | 66 | 20 |
| Community Health Network of Berkshire (1) | 1509 | 420.0 | 464 | 350 | 94 | 34 | 88 | 10 | 0 | 83 | 90 | 45 | 13 |
| Community Partners for Health (Milford Area, 6) | 1061 | 443.8 | 311 | 274 | 66 | 30 | 61 | 16 | 3 | 56 | 41 | 29 | 9 |
| Community Wellness Coalition (WorcesterArea,8) | 2797 | 455.1 | 809 | 683 | 170 | 66 | 175 | 26 | 6 | 171 | 111 | 72 | 15 |
| Fitchburg/Gardner Community Health Network (9) | 1907 | 428.8 | 549 | 496 | 130 | 40 | 116 | 23 | 2 | 96 | 100 | 50 | 11 |
| Greater Attleboro/Taunton Area (24) | 1723 | 445.5 | 561 | 436 | 115 | 35 | 95 | 26 | 0 | 90 | 84 | 45 | 16 |
| Greater Brockton Community Health Network (22) | 1923 | 480.5 | 585 | 514 | 158 | 42 | 95 | 17 | 6 | 85 | 120 | 38 | 12 |
| Greater Framingham Area (7) | 2496 | 383.6 | 725 | 677 | 186 | 63 | 158 | 15 | 6 | 121 | 108 | 62 | 24 |
| Greater Haverhill Area (12) | 1143 | 454.9 | 382 | 264 | 72 | 20 | 87 | 14 | 0 | 39 | 58 | 30 | 9 |
| Greater Holyoke Area (3) | 1168 | 399.1 | 367 | 275 | 73 | 21 | 71 | 13 | 0 | 64 | 55 | 21 | 11 |
| Greater Lawrence Area (11) | 1434 | 426.9 | 455 | 334 | 88 | 31 | 106 | 17 | 6 | 69 | 54 | 43 | 10 |
| Greater Lowell Community Health Network (10) | 2031 | 485.6 | 623 | 505 | 137 | 41 | 110 | 29 | 9 | 92 | 106 | 47 | 18 |
| Greater New Bedford Area (26) | 1982 | 431.8 | 676 | 471 | 120 | 41 | 122 | 19 | 3 | 62 | 94 | 63 | 15 |
| Greater Southbridge Area (5) | 969 | 444.3 | 303 | 277 | 69 | 30 | 50 | 15 | 2 | 36 | 38 | 30 | 13 |
| Greater Springfield Community Health Network (4) | 2818 | 493.3 | 808 | 662 | 175 | 55 | 178 | 23 | 9 | 154 | 135 | 73 | 21 |
| Greater Woburn/Concord/Littleton Area (15) | 1561 | 355.7 | 468 | 399 | 96 | 31 | 110 | 11 | 0 | 84 | 63 | 36 | 17 |
| Hamphsire County Partnership for Health (21) | 1666 | 474.1 | 557 | 403 | 116 | 33 | 105 | 13 | 6 | 65 | 64 | 41 | 17 |
| Medford/Malden/Melrose Area (16) | 2348 | 391.2 | 704 | 619 | 169 | 38 | 146 | 14 | 4 | 122 | 97 | 49 | 16 |
| North Shore Community Health Network (14) | 2627 | 441.8 | 796 | 699 | 198 | 56 | 165 | 24 | 8 | 135 | 106 | 52 | 21 |
| Partners for a Healthier Community (Fall River 25) | 1513 | 452.1 | 529 | 361 | 88 | 21 | 100 | 9 | 6 | 70 | 52 | 44 | 16 |
| South Shore Partners in Prevention (Plymouth,23) | 1362 | 460.3 | 423 | 352 | 96 | 32 | 68 | 24 | 2 | 62 | 83 | 28 | 9 |
| Upper Valley Health Web (Franklin County, 2) | 840 | 451.4 | 236 | 189 | 48 | 11 | 57 | 17 | 0 | 53 | 43 | 21 | 12 |
| West Suburban Health Network (Newton/Walth.18) | 2160 | 340.3 | 620 | 548 | 112 | 52 | 177 | 12 | 4 | 119 | 93 | 50 | 15 |

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[1] All rates are age-adjusted using the 1940 US Census standard population. [2] Includes only female breast cancer. [3] Chronic Obstructive Pulmonary Disease.

# Table C-14C. Selected Causes of Death by County, 1997

| County Name | Total Deaths | Age-adjusted death rate[1] | Heart disease | Total Cancer | Lung Cancer | Breast Cancer[2] | Stroke | Motor vehicle | Homi- cide | Pneumonia & Influenza | COPD[3] | Diabetes | Suicide |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barnstable | 2545 | 403.2 | 688 | 665 | 177 | 38 | 190 | 21 | 1 | 94 | 120 | 64 | 18 |
| Berkshire | 1509 | 420.0 | 464 | 350 | 94 | 34 | 88 | 10 | 0 | 83 | 90 | 45 | 13 |
| Bristol | 4791 | 439.8 | 1634 | 1160 | 299 | 86 | 293 | 48 | 9 | 201 | 218 | 137 | 37 |
| Dukes | 141 | 460.5 | 45 | 37 | 10 | 1 | 11 | 0 | 0 | 4 | 5 | 1 | 1 |
| Essex | 6299 | 431.0 | 1979 | 1562 | 423 | 132 | 436 | 61 | 17 | 296 | 269 | 149 | 49 |
| Franklin | 675 | 438.4 | 186 | 155 | 43 | 8 | 42 | 16 | 0 | 48 | 34 | 18 | 9 |
| Hampden | 4532 | 487.7 | 1368 | 1083 | 298 | 90 | 287 | 37 | 17 | 219 | 204 | 115 | 40 |
| Hampshire | 1178 | 396.7 | 369 | 277 | 74 | 21 | 71 | 13 | 0 | 66 | 55 | 22 | 11 |
| Middlesex | 11356 | 390.0 | 3346 | 2913 | 739 | 250 | 741 | 88 | 21 | 574 | 498 | 283 | 106 |
| Nantucket | 86 | 567.3 | 30 | 21 | 5 | 2 | 10 | 1 | 0 | 3 | 3 | 1 | 1 |
| Norfolk | 5695 | 408.1 | 1798 | 1456 | 403 | 114 | 338 | 39 | 13 | 271 | 232 | 119 | 49 |
| Plymouth | 3782 | 459.5 | 1158 | 994 | 277 | 91 | 196 | 52 | 7 | 163 | 215 | 85 | 36 |
| Suffolk | 5541 | 537.2 | 1486 | 1349 | 367 | 103 | 302 | 43 | 39 | 294 | 210 | 155 | 69 |
| Worcester | 6504 | 441.8 | 1931 | 1653 | 420 | 155 | 396 | 72 | 13 | 351 | 279 | 167 | 48 |
| State Total | 54634 | 431.3 | 16482 | 13675 | 3629 | 1125 | 3401 | 501 | 137 | 2667 | 2432 | 1361 | 487 |

[1] All rates are age-adjusted using the 1940 US Census standard population. [2] Includes only female breast cancer. [3] Chronic Obstructive Pulmonary Disease

## TABLE C-15
## RESIDENT DEATHS BY CAUSE, SEX, AND RACE
## 1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *001 139 | I. INFECTIVE AND PARASITIC DISEASES | 1257 | 663 | 594 | 1102 | 581 | 521 | 141 | 75 | 66 | 14 | 7 |
| 001-009 | INTESTINAL INFECTIOUS DISEASES | 59 | 21 | 38 | 55 | 21 | 34 | 4 | 0 | 4 | 0 | 0 |
| 009 | INTESTINAL INFECTIONS DUE TO OTHER ORGANISMS | 59 | 21 | 38 | 55 | 21 | 34 | 4 | 0 | 4 | 0 | 0 |
| 010-018 | TUBERCULOSIS | 12 | 3 | 9 | 8 | 2 | 6 | 2 | 1 | 1 | 2 | 0 |
| 011 | PULMONARY TUBERCULOSIS | 7 | 2 | 5 | 6 | 2 | 4 | 1 | 0 | 1 | 0 | 0 |
| 013 | TUBERCULOSIS OF MENINGES & CNS | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 015 | TUBERCULOSIS OF BONES & JOINTS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 017 | TUBERCULOSIS OF OTHER ORGANS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 018 | MILIARY TUBERCULOSIS | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 030-041 | OTHER BACTERIAL DISEASES | 731 | 335 | 396 | 678 | 311 | 367 | 46 | 19 | 27 | 7 | 5 |
| 031 | DISEASES DUE TO OTHER MYCOBACTERIA | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 036 | MENINGOCOCCAL INFECTION | 6 | 5 | 1 | 5 | 4 | 1 | 1 | 1 | 0 | 0 | 0 |
| 038 | SEPTICEMIA | 704 | 321 | 383 | 653 | 299 | 354 | 44 | 17 | 27 | 7 | 5 |
| 039 | ACTINOMYCOTIC INFECTION | 2 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| 040 | OTHER BACTERIAL DISEASES | 6 | 4 | 2 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 041 | BACTERIAL INF IN COND CE & OF UNSPECF SITE | 10 | 3 | 7 | 10 | 3 | 7 | 0 | 0 | 0 | 0 | 0 |
| 042-044 | AIDS, ARC AND ARV | 242 | 190 | 52 | 168 | 140 | 28 | 74 | 50 | 24 | 0 | 0 |
| 042 | AIDS | 227 | 181 | 46 | 157 | 132 | 25 | 70 | 49 | 21 | 0 | 0 |
| 043 | ARC, AIDS-LIKE SYNDROME | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 044 | OTHER HIV INFECTION | 14 | 9 | 5 | 10 | 8 | 2 | 4 | 1 | 3 | 0 | 0 |
| 045-049 | POLIOMYELITIS AND OTHER ENTEROVIRUS DIS. OF CENTRAL NERVOUS SYSTEM | 14 | 5 | 9 | 13 | 5 | 8 | 0 | 0 | 0 | 1 | 0 |
| 046 | SLOW VIRUS INFECTION OF CNS | 10 | 3 | 7 | 10 | 3 | 7 | 0 | 0 | 0 | 0 | 0 |
| 049 | OTHER NON-ARTHROPOD-BORNE VIRAL DIS OF CNS | 4 | 2 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 1 | 0 |
| 050-057 | VIRAL DISEASES ACCOMPANIED BY EXANTHEM | 10 | 2 | 8 | 10 | 2 | 8 | 0 | 0 | 0 | 0 | 0 |
| 052 | CHICKENPOX | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 053 | HERPES ZOSTER | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 054 | HERPES SIMPLEX | 7 | 2 | 5 | 7 | 2 | 5 | 0 | 0 | 0 | 0 | 0 |
| 060-066 | ARTHOPOD-BORNE VIRAL DISEASES | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 062 | MOSQUITO-BORNE VIRAL ENCEPHALITIS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 070-079 | OTHER VIRAL DISEASES | 91 | 58 | 33 | 83 | 55 | 28 | 5 | 1 | 4 | 3 | 2 |
| 070 | VIRAL HEPATITIS | 84 | 56 | 28 | 76 | 53 | 23 | 5 | 1 | 4 | 3 | 2 |
| 078 | OTHER DIS DUE TO VIRUSES & CHLAMYDIAE | 4 | 2 | 2 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| 079 | VIRAL INF IN COND CE & OF UNSPECIFIED SITE | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 090-099 | SYPHILIS AND OTHER VENEREAL DISEASES | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 090 | CONGENITAL SYPHILIS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100-104 | OTHER SPIROCHETAL DISEASES | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 100 | LEPTOSPIROSIS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 110-118 | MYCOSES | 51 | 27 | 24 | 47 | 25 | 22 | 4 | 2 | 2 | 0 | 0 |
| 112 | CANDIDIASIS | 17 | 6 | 11 | 17 | 6 | 11 | 0 | 0 | 0 | 0 | 0 |
| 115 | HISTOPLASMOSIS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117 | OTHER MYCOSES | 33 | 20 | 13 | 29 | 18 | 11 | 4 | 2 | 2 | 0 | 0 |
| 130-136 | OTHER INFECTIVE AND PARASITIC DISEASES | 36 | 15 | 21 | 29 | 13 | 16 | 6 | 2 | 4 | 1 | 0 |
| 130 | TOXOPLASMOSIS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | SARCOIDOSIS | 11 | 2 | 9 | 6 | 1 | 5 | 5 | 1 | 4 | 0 | 0 |
| 136 | OTHER & UNSPECIFIED INFECTIOUS & PARASITIC DISEASES | 24 | 12 | 12 | 22 | 11 | 11 | 1 | 1 | 0 | 1 | 0 |
| 137-139 | LATE EFFECTS OF INFECTIOUS AND PARASITIC DISEASES | 8 | 5 | 3 | 8 | 5 | 3 | 0 | 0 | 0 | 0 | 0 |
| 137 | LATE EFFECTS OF TUBERCULOSIS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 138 | LATE EFFECTS OF ACUTE POLIOMYELITIS | 6 | 4 | 2 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS | | | WHITE | | | BLACK | | | OTHER | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE |
| | I. INFECTIVE AND PARASITIC DISEASES (CONTINUED) | | | | | | | | | | | |
| 139 | LATE EFFECTS OF OTH INFECT & PARASITIC DISEASES | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *140 239 | II. NEOPLASMS | 13938 | 6838 | 7100 | 13297 | 6504 | 6793 | 504 | 264 | 240 | 137 | 70 |
| 140-149 | MALIGNANT NEOPLASM OF LIP, ORAL CAVITY AND PHARYNX | 175 | 118 | 57 | 163 | 109 | 54 | 8 | 6 | 2 | 4 | 3 |
| 140 | MALIG NEOPLASM LIP | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 141 | MALIG NEOPLASM TONGUE | 49 | 31 | 18 | 48 | 30 | 18 | 1 | 1 | 0 | 0 | 0 |
| 142 | MALIG NEOP MAJOR SALIVARY GLANDS | 11 | 9 | 2 | 10 | 8 | 2 | 0 | 0 | 0 | 1 | 1 |
| 143 | MALIG NEOPLASM GUM | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 144 | MALIG NEOPLASM FLOOR OF MOUTH | 4 | 3 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 145 | MALIG NEOPLASM OTHER & UNSPECF PARTS OF MOUTH | 30 | 13 | 17 | 28 | 13 | 15 | 2 | 0 | 2 | 0 | 0 |
| 146 | MALIG NEOPPLASM OROPHARYNX | 19 | 13 | 6 | 18 | 12 | 6 | 1 | 1 | 0 | 0 | 0 |
| 147 | MALIG NEOPLASM NASOPHARYNX | 10 | 6 | 4 | 5 | 2 | 3 | 2 | 2 | 0 | 3 | 2 |
| 148 | MALIG NEOPLASM HYPOPHARYNX | 6 | 6 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 149 | MALIG NEOP OTH SITES W/IN LIP, ORAL CAVITY, PHARYNX | 40 | 31 | 9 | 38 | 29 | 9 | 2 | 2 | 0 | 0 | 0 |
| 150-159 | MALIGNANT NEOPLASM OF DIGESTIVE ORGANS AND PERITONEUM | 3409 | 1740 | 1669 | 3218 | 1639 | 1579 | 139 | 74 | 65 | 52 | 27 |
| 150 | MALIG NEOPLASM ESOPHAGUS | 306 | 231 | 75 | 289 | 219 | 70 | 14 | 12 | 2 | 3 | 0 |
| 151 | MALIG NEOPLASM STOMACH | 362 | 201 | 161 | 333 | 185 | 148 | 16 | 9 | 7 | 13 | 7 |
| 152 | MALIG NEOPLASM SMALL INTESTINE INCLUDING DUODENUM | 35 | 17 | 18 | 32 | 16 | 16 | 2 | 1 | 1 | 1 | 0 |
| 153 | MALIG NEOPLASM COLON | 1272 | 578 | 694 | 1211 | 548 | 663 | 46 | 22 | 24 | 15 | 8 |
| 154 | MALIG NEOPLASM RECTUM, RECTOSIGMOID JUNCT, ANUS | 260 | 131 | 129 | 248 | 123 | 125 | 10 | 6 | 4 | 2 | 2 |
| 155 | MALIG NEOPLASM LIVER & INTRAHEPATIC BILE DUCTS | 314 | 197 | 117 | 287 | 181 | 106 | 15 | 9 | 6 | 12 | 7 |
| 156 | MALIG NEOPLASM OF GALLBLADDER & EXTRAHEPATIC BILE DUCTS | 91 | 32 | 59 | 85 | 32 | 53 | 4 | 0 | 4 | 2 | 0 |
| 157 | MALIG NEOPLASM PANCREAS | 714 | 328 | 386 | 681 | 311 | 370 | 30 | 14 | 16 | 3 | 3 |
| 158 | MALIG NEOPLASM RETROPERITONEUM & PERITONEUM | 15 | 5 | 10 | 14 | 5 | 9 | 1 | 0 | 1 | 0 | 0 |
| 159 | MALIG NEOP OTH SITES W/IN DIGESTIVE ORGS/PERITONEUM | 40 | 20 | 20 | 38 | 19 | 19 | 1 | 1 | 0 | 1 | 0 |
| 160-165 | MALIGNANT NEOPLASM OF RESPIRATORY AND INTRATHORACIC ORGANS | 3748 | 2052 | 1696 | 3591 | 1957 | 1634 | 129 | 77 | 52 | 28 | 18 |
| 160 | MALIG NEOPLASM NASAL CAVITIES, MIDDLE EAR, SINUSES | 10 | 3 | 7 | 9 | 3 | 6 | 0 | 0 | 0 | 1 | 0 |
| 161 | MALIG NEOPLASM LARYNX | 97 | 72 | 25 | 88 | 66 | 22 | 8 | 5 | 3 | 1 | 1 |
| 162 | MALIG NEOPLASM TRACHEA, BRONCHUS, LUNG | 3629 | 1969 | 1660 | 3482 | 1880 | 1602 | 121 | 72 | 49 | 26 | 17 |
| 163 | MALIG NEOPLASM PLEURA | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 164 | MALIG NEOPLASM THYMUS, HEART, MEDIASTINUM | 7 | 3 | 4 | 7 | 3 | 4 | 0 | 0 | 0 | 0 | 0 |
| 165 | MALIG NEOP OTH SITES W/IN RESP SYS & INTRATHORACIC | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170-175 | MALIGNANT NEOPLASM OF BONE, CONNECTIVE TISSUE, SKIN, AND BREAST | 1507 | 222 | 1285 | 1448 | 216 | 1232 | 48 | 5 | 43 | 11 | 1 |
| 170 | MALIG NEOPLASM BONE & ARTICULAR CARTILAGE | 24 | 11 | 13 | 22 | 10 | 12 | 2 | 1 | 1 | 0 | 0 |
| 171 | MALIG NEOPLASM CONNECTIVE & OTH SOFT TISSUE | 95 | 49 | 46 | 87 | 46 | 41 | 5 | 2 | 3 | 3 | 1 |
| 172 | MALIG MELANOMA OF SKIN | 205 | 121 | 84 | 204 | 120 | 84 | 1 | 1 | 0 | 0 | 0 |
| 173 | OTHER MALIG NEOPLASM SKIN | 48 | 31 | 17 | 47 | 30 | 17 | 1 | 1 | 0 | 0 | 0 |
| 174 | MALIG NEOPLASM FEMALE BREAST | 1125 | 0 | 1125 | 1078 | 0 | 1078 | 39 | 0 | 39 | 8 | 0 |
| 175 | MALIG NEOPLASM MALE BREAST | 10 | 10 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| 179-189 | MALIGNANT NEOPLASM OF GENITOURINARY ORGANS | 2012 | 1198 | 814 | 1919 | 1136 | 783 | 82 | 56 | 26 | 11 | 6 |
| 179 | MALIG NEOPLASM UTERUS, PART UNSPECIFIED | 61 | 0 | 61 | 60 | 0 | 60 | 1 | 0 | 1 | 0 | 0 |
| 180 | MALIG NEOPLASM CERVIX UTERI | 79 | 0 | 79 | 70 | 0 | 70 | 7 | 0 | 7 | 2 | 0 |

TABLE C-15 (CONTINUED)

1997

| ICD. LIST NUMBER | CAUSE OF DEATH<br>II. NEOPLASMS<br>(CONTINUED) | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 182 | MALIG NEOPLASM BODY OF UTERUS | 91 | 0 | 91 | 85 | 0 | 85 | 5 | 0 | 5 | 1 | 0 |
| 183 | MALIG NEOPLASM OVARY & OTHER UTERINE ADNEXA | 332 | 0 | 332 | 327 | 0 | 327 | 5 | 0 | 5 | 0 | 0 |
| 184 | MALIG NEOPLASM OTH & UNSPECF FEMALE GENITAL ORGANS | 27 | 0 | 27 | 27 | 0 | 27 | 0 | 0 | 0 | 0 | 0 |
| 185 | MALIG NEOPLASM PROSTATE | 777 | 777 | 0 | 728 | 728 | 0 | 45 | 45 | 0 | 4 | 4 |
| 186 | MALIG NEOPLASM TESTIS | 13 | 13 | 0 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 187 | MALIG NEOPLASM PENIS & OTHER MALE GENITAL ORGANS | 9 | 9 | 0 | 8 | 8 | 0 | 1 | 1 | 0 | 0 | 0 |
| 188 | MALIG NEOPLASM BLADDER | 354 | 230 | 124 | 342 | 224 | 118 | 10 | 5 | 5 | 2 | 1 |
| 189 | MALIG NEOPLASM KIDNEY & OTH & UNSPECF URINARY ORGANS | 269 | 169 | 100 | 259 | 163 | 96 | 8 | 5 | 3 | 2 | 1 |
| 190-199 | MALIGNANT NEOPLASM OF OTHER AND UNSPECIFIED SITES | 1505 | 739 | 766 | 1443 | 707 | 736 | 49 | 24 | 25 | 13 | 8 |
| 190 | MALIG NEOPLASM EYE | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 191 | MALIG NEOPLASM BRAIN | 266 | 139 | 127 | 263 | 138 | 125 | 2 | 0 | 2 | 1 | 1 |
| 192 | MALIG NEOP OTHER & UNSPECF PARTS NERVOUS SYSTEM | 3 | 1 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 193 | MALIG NEOPLASM THYROID GLAND | 34 | 17 | 17 | 33 | 17 | 16 | 1 | 0 | 1 | 0 | 0 |
| 194 | MALIG NEOPLASM OTH ENDOCRINE GLANDS & RELATED | 16 | 7 | 9 | 15 | 7 | 8 | 1 | 0 | 1 | 0 | 0 |
| 195 | MALIG NEOPLASM OTHER & ILL-DEFINED SITES | 89 | 47 | 42 | 82 | 42 | 40 | 6 | 4 | 2 | 1 | 1 |
| 199 | MALIG NEOPLASM W/O SPECIFICATION OF SITE | 1095 | 526 | 569 | 1045 | 500 | 545 | 39 | 20 | 19 | 11 | 6 |
| 200-208 | NEOPLASMS OF LYMPHATIC AND HEMATOPOIETIC TISSUE | 1319 | 655 | 664 | 1263 | 632 | 631 | 42 | 18 | 24 | 14 | 5 |
| 200 | LYMPHOSARCOMA & RETICULOSARCOMA | 14 | 9 | 5 | 14 | 9 | 5 | 0 | 0 | 0 | 0 | 0 |
| 201 | HODGKIN'S DISEASE | 28 | 8 | 20 | 27 | 7 | 20 | 0 | 0 | 0 | 1 | 1 |
| 202 | OTHER MALIG NEOP LYMPHOID & HISTIOCYTIC TISSUE | 587 | 277 | 310 | 566 | 271 | 295 | 17 | 4 | 13 | 4 | 2 |
| 203 | MULTIPLE MYELOMA & IMMUNOPROLIFERATIVE NEOPS | 232 | 123 | 109 | 216 | 113 | 103 | 16 | 10 | 6 | 0 | 0 |
| 204 | LYMPHOID LEUKEMIA | 136 | 69 | 67 | 131 | 68 | 63 | 3 | 0 | 3 | 2 | 1 |
| 205 | MYELOID LEUKEMIA | 189 | 98 | 91 | 181 | 96 | 85 | 2 | 1 | 1 | 6 | 1 |
| 206 | MONOCYTIC LEUKEMIA | 7 | 5 | 2 | 7 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| 207 | OTHER SPECIFIED LEUKEMIA | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 208 | LEUKEMIA OF UNSPECIFIED CELL TYPE | 124 | 66 | 58 | 119 | 63 | 56 | 4 | 3 | 1 | 1 | 0 |
| 210-229 | BENIGN NEOPLASMS | 34 | 14 | 20 | 32 | 12 | 20 | 2 | 2 | 0 | 0 | 0 |
| 211 | BENIGN NEOPLASM OTH PARTS DIGESTIVE SYSTEM | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 216 | BENIGN NEOPLASM SKIN | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 218 | UTERINE LEIOMYOMA | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 220 | BENIGN NEOPLASM OVARY | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 225 | BENIGN NEOPLASM BRAIN & OTH PARTS NERVOUS SYSTEM | 25 | 10 | 15 | 23 | 8 | 15 | 2 | 2 | 0 | 0 | 0 |
| 227 | BENIGN NEOPLASM OTH ENDOCRINE GLANDS & RELATED | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 228 | HEMANGIOMA & LYMPHANGIOMA, ANY SITE | 3 | 1 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 235-238 | NEOPLASMS OF UNCERTAIN BEHAVIOUR | 48 | 21 | 27 | 45 | 20 | 25 | 1 | 0 | 1 | 2 | 1 |
| 235 | NEOPLASM OF UNCERT BEHAV DIGESTIVE & RESPIRATORY SYS | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 237 | NEOPLASM OF UNCERT BEHAV ENDOCRINE GLANDS & NERVOUS SYS | 5 | 4 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 238 | NEOPLASM UNCERT BEHAV OTHER & UNSPECF SITES & TISSUES | 40 | 15 | 25 | 37 | 14 | 23 | 1 | 0 | 1 | 2 | 1 |
| 239-239 | NEOPLASM OF UNSPECIFIED NATURE | 181 | 79 | 102 | 175 | 76 | 99 | 4 | 2 | 2 | 2 | 1 |
| 239 | NEOPLASMS OF UNSPECIFIED NATURE | 181 | 79 | 102 | 175 | 76 | 99 | 4 | 2 | 2 | 2 | 1 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS | | | WHITE | | | BLACK | | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE | F |
| *240 279 | III. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES | 1925 | 865 | 1060 | 1793 | 807 | 986 | 115 | 51 | 64 | 17 | 7 | 1 |
| 240-246 | DISORDERS OF THYROID GLAND | 22 | 2 | 20 | 21 | 2 | 19 | 1 | 0 | 1 | 0 | 0 | |
| 242 | THYROTOXICOSIS WITH OR W/O GOITER | 5 | 0 | 5 | 4 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | |
| 244 | ACQUIRED HYPOTHYROIDISM | 17 | 2 | 15 | 17 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | |
| 250-259 | DISEASES OF OTHER ENDOCRINE GLANDS | 1381 | 668 | 713 | 1275 | 622 | 653 | 93 | 41 | 52 | 13 | 5 | |
| 250 | DIABETES MELLITUS | 1361 | 658 | 703 | 1256 | 613 | 643 | 92 | 40 | 52 | 13 | 5 | |
| 251 | OTH DISORDERS OF PANCREATIC INTERNAL SECRETION | 5 | 3 | 2 | 4 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | |
| 252 | DISORDERS OF PARATHYROID GLAND | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 253 | DISORDERS PITUITARY GLAND & HYPOTHALMIC CONTROL | 6 | 3 | 3 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 255 | DISORDERS OF ADRENAL GLANDS | 7 | 4 | 3 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 260-269 | NUTRITIONAL DEFICIENCIES | 62 | 21 | 41 | 59 | 19 | 40 | 1 | 1 | 0 | 2 | 1 | |
| 260 | KWASHIORKOR | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 261 | NUTRITIONAL MARASMUS | 7 | 4 | 3 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 263 | OTH & UNSPECF PROTEIN-CALORIE MALNUTRITION | 50 | 16 | 34 | 47 | 14 | 33 | 1 | 1 | 0 | 2 | 1 | |
| 265 | THIAMINE & NIACIN DEFICIENCY STATES | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 269 | OTHER NUTRITIONAL DEFICIENCIES | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 270-279 | OTHER METABOLIC AND IMMUNITY DISORDERS | 460 | 174 | 286 | 438 | 164 | 274 | 20 | 9 | 11 | 2 | 1 | |
| 270 | DISORDERS OF AMINO-ACID TRANSPORT & METABOLISM | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 271 | DISORDERS OF CARBOHYDRATE TRANSPORT & METABOLISM | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 272 | DISORDERS OF LIPOID METABOLISM | 37 | 24 | 13 | 37 | 24 | 13 | 0 | 0 | 0 | 0 | 0 | |
| 273 | DISORDERS OF PLASMA PROTEIN METABOLISM | 17 | 6 | 11 | 16 | 6 | 10 | 1 | 0 | 1 | 0 | 0 | |
| 274 | GOUT | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 275 | DISORDERS OF MINERAL METABOLISM | 9 | 7 | 2 | 9 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 276 | DISORDERS FLUID, ELECTROLYTE, ACID-BASE BALANCE | 281 | 74 | 207 | 277 | 72 | 205 | 3 | 2 | 1 | 1 | 0 | |
| 277 | OTHER & UNSPECIFIED DISORDERS OF METABOLISM | 59 | 33 | 26 | 52 | 29 | 23 | 6 | 3 | 3 | 1 | 1 | |
| 278 | OBESITY & HYPERALIMENTATION | 38 | 19 | 19 | 34 | 17 | 17 | 4 | 2 | 2 | 0 | 0 | |
| 279 | DISORDERS INVOLVING THE IMMUNE MECHANISM | 14 | 7 | 7 | 8 | 5 | 3 | 6 | 2 | 4 | 0 | 0 | |
| *280 289 | IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS | 241 | 110 | 131 | 231 | 106 | 125 | 10 | 4 | 6 | 0 | 0 | |
| 281 | OTHER DEFICIENCY ANEMIAS | 4 | 1 | 3 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 282 | HEREDITARY HEMOLYTIC ANEMIAS | 8 | 3 | 5 | 4 | 1 | 3 | 4 | 2 | 2 | 0 | 0 | |
| 283 | ACQUIRED HEMOLYTIC ANEMIAS | 7 | 3 | 4 | 6 | 3 | 3 | 1 | 0 | 1 | 0 | 0 | |
| 284 | APLASTIC ANEMIA | 29 | 12 | 17 | 28 | 12 | 16 | 1 | 0 | 1 | 0 | 0 | |
| 285 | OTHER AND UNSPECIFIED ANEMIAS | 55 | 21 | 34 | 53 | 20 | 33 | 2 | 1 | 1 | 0 | 0 | |
| 286 | COAGULATION DEFECTS | 34 | 13 | 21 | 33 | 13 | 20 | 1 | 0 | 1 | 0 | 0 | |
| 287 | PURPURA & OTHER HEMORRHAGIC CONDITIONS | 23 | 12 | 11 | 22 | 11 | 11 | 1 | 1 | 0 | 0 | 0 | |
| 288 | DISEASES OF WHITE BLOOD CELLS | 8 | 2 | 6 | 8 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | |
| 289 | OTHER DISEASES OF BLOOD & BLOOD-FORMING ORGANS | 73 | 43 | 30 | 73 | 43 | 30 | 0 | 0 | 0 | 0 | 0 | |

TABLE C-15 (CONTINUED)

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *290 319 | V. MENTAL DISORDERS | 1454 | 460 | 994 | 1397 | 430 | 967 | 49 | 25 | 24 | 8 | 5 |
| 290-294 | ORGANIC PSYCHOTIC CONDITIONS | 537 | 123 | 414 | 519 | 116 | 403 | 17 | 6 | 11 | 1 | 1 |
| 290 | SENILE & PRESENILE ORGANIC PSYCHOTIC CONDITIONS | 524 | 115 | 409 | 507 | 109 | 398 | 16 | 5 | 11 | 1 | 1 |
| 291 | ALCOHOLIC PSYCHOSES | 7 | 6 | 1 | 6 | 5 | 1 | 1 | 1 | 0 | 0 | 0 |
| 294 | OTHER ORGANIC PSYCHOTIC CONDITIONS (CHRONIC) | 6 | 2 | 4 | 6 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| 295-299 | OTHER PSYCHOSES | 576 | 166 | 410 | 554 | 156 | 398 | 20 | 10 | 10 | 2 | 0 |
| 295 | SCHIZOPHRENIC DISORDERS | 13 | 5 | 8 | 12 | 4 | 8 | 1 | 1 | 0 | 0 | 0 |
| 296 | AFFECTIVE PSYCHOSES | 3 | 1 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 298 | OTHER NONORGANIC PSYCHOSES | 560 | 160 | 400 | 539 | 151 | 388 | 19 | 9 | 10 | 2 | 0 |
| 300-316 | NEUROSES, PERSONALITY DISORDERS, AND OTHER NONPSYCHOTIC DISORDERS | 324 | 163 | 161 | 309 | 152 | 157 | 11 | 8 | 3 | 4 | 3 |
| 300 | NEUROTIC DISORDERS | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 303 | ALCOHOL DEPENDENCE SYNDROME | 131 | 101 | 30 | 122 | 92 | 30 | 6 | 6 | 0 | 3 | 3 |
| 304 | DRUG DEPENDENCE | 5 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 305 | NONDEPENDENT ABUSE OF DRUGS | 30 | 25 | 5 | 28 | 24 | 4 | 1 | 1 | 0 | 1 | 0 |
| 307 | SPECIAL SYMPTOMS OR SYNDROMES NEC | 5 | 0 | 5 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 310 | SPEC NONPSYCH MENTAL DIS DUE TO ORGANIC BRAIN DAMAGE | 121 | 24 | 97 | 117 | 23 | 94 | 4 | 1 | 3 | 0 | 0 |
| 311 | DEPRESSIVE DISORDER NEC | 29 | 8 | 21 | 29 | 8 | 21 | 0 | 0 | 0 | 0 | 0 |
| 312 | DISTURBANCE OF CONDUCT NEC | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 317-319 | MENTAL RETARDATION | 17 | 8 | 9 | 15 | 6 | 9 | 1 | 1 | 0 | 1 | 1 |
| 318 | OTHER SPECIFIED MENTAL RETARDATION | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 319 | UNSPECIFIED MENTAL RETARDATION | 15 | 6 | 9 | 15 | 6 | 9 | 0 | 0 | 0 | 0 | 0 |
| *320 389 | VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS | 1610 | 678 | 932 | 1559 | 654 | 905 | 44 | 21 | 23 | 7 | 3 |
| 320-326 | INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM | 27 | 18 | 9 | 23 | 15 | 8 | 4 | 3 | 1 | 0 | 0 |
| 320 | BACTERIAL MENINGITIS | 9 | 6 | 3 | 7 | 5 | 2 | 2 | 1 | 1 | 0 | 0 |
| 322 | MENINGITIS OF UNSPECIFIED CAUSE | 5 | 3 | 2 | 4 | 2 | 2 | 1 | 1 | 0 | 0 | 0 |
| 323 | ENCEPHALITIS, MYELITIS & ENCEPHALOMYELITIS | 4 | 3 | 1 | 3 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| 324 | INTRACRANIAL & INTRASPINAL ABCESS | 7 | 5 | 2 | 7 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| 326 | LATE EFF INTRACRANIAL ABCESS OR PYOGENIC INFECTION | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 330-337 | HEREDITARY AND DEGENERATIVE DISEASES OF NERVOUS SYSTEM | 1252 | 492 | 760 | 1226 | 480 | 746 | 21 | 9 | 12 | 5 | 3 |
| 330 | CEREBRAL DEGENERATIONS USUALLY MANIFEST IN CHILDHOOD | 3 | 1 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 331 | OTHER CEREBRAL DEGENERATIONS | 703 | 198 | 505 | 689 | 192 | 497 | 12 | 5 | 7 | 2 | 1 |
| 332 | PARKINSON'S DISEASE | 363 | 202 | 161 | 357 | 199 | 158 | 4 | 2 | 2 | 2 | 1 |
| 333 | OTH EXTRAPYRAMIDAL DISEASE & ABN MOVEMENT DISORDERS | 29 | 12 | 17 | 29 | 12 | 17 | 0 | 0 | 0 | 0 | 0 |
| 334 | SPINOCEREBELLAR DISEASE | 11 | 7 | 4 | 10 | 7 | 3 | 1 | 0 | 1 | 0 | 0 |
| 335 | ANTERIOR HORN CELL DISEASE | 133 | 68 | 65 | 128 | 65 | 63 | 4 | 2 | 2 | 1 | 1 |
| 336 | OTHER DISEASES OF SPINAL CORD | 10 | 4 | 6 | 10 | 4 | 6 | 0 | 0 | 0 | 0 | 0 |
| 340-349 | OTHER DISORDERS OF THE CENTRAL NERVOUS SYSTEM | 253 | 131 | 122 | 232 | 122 | 110 | 19 | 9 | 10 | 2 | 0 |
| 340 | MULTIPLE SCLEROSIS | 70 | 27 | 43 | 70 | 27 | 43 | 0 | 0 | 0 | 0 | 0 |
| 341 | OTHER DEMYELINATING DISEASES OF CNS | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 342 | HEMIPLEGIA | 4 | 1 | 3 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| 343 | INFANTILE CEREBRAL PALSY | 12 | 8 | 4 | 11 | 7 | 4 | 1 | 1 | 0 | 0 | 0 |
| 344 | OTHER PARALYTIC SYNDROMES | 25 | 16 | 9 | 23 | 15 | 8 | 1 | 1 | 0 | 1 | 0 |
| 345 | EPILEPSY | 21 | 14 | 7 | 21 | 14 | 7 | 0 | 0 | 0 | 0 | 0 |
| 348 | OTHER CONDITIONS OF BRAIN | 109 | 60 | 49 | 91 | 53 | 38 | 17 | 7 | 10 | 1 | 0 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (CONTINUED) | | | | | | | | | | | |
| 349 | OTHER & UNSPECIFIED DISORDERS OF NERVOUS SYSTEM | 9 | 3 | 6 | 9 | 3 | 6 | 0 | 0 | 0 | 0 | 0 |
| 350-359 | DISORDERS OF PERIPHERAL NERVOUS SYSTEM | 77 | 37 | 40 | 77 | 37 | 40 | 0 | 0 | 0 | 0 | 0 |
| 352 | DISORDERS OF OTHER CRANIAL NERVES | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 356 | HEREDITARY & IDIOPATHIC PERIPHERAL NEUROPATHY | 35 | 12 | 23 | 35 | 12 | 23 | 0 | 0 | 0 | 0 | 0 |
| 357 | INFLAMMATORY & TOXIC NEUROPATHY | 4 | 3 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 358 | MYONEURAL DISORDERS | 13 | 4 | 9 | 13 | 4 | 9 | 0 | 0 | 0 | 0 | 0 |
| 359 | MUSCULAR DYSTROPHIES & OTHER MYOPATHIES | 24 | 17 | 7 | 24 | 17 | 7 | 0 | 0 | 0 | 0 | 0 |
| 380-389 | DISEASES OF THE EAR AND MASTIOD PROCESS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 382 | SUPPURATIVE & UNSPECIFIED OTITIS MEDIA | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *390 459 | VII. DISEASES OF THE CIRCULATORY SYSTEM | 21294 | 9490 | 11804 | 20531 | 9105 | 11426 | 634 | 309 | 325 | 126 | 73 |
| 390-392 | ACUTE RHEUMATIC FEVER | 4 | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 391 | RHEUMATIC FEVER WITH HEART INVOLVEMENT | 4 | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 393-398 | CHRONIC RHEUMATIC HEART DISEASE | 104 | 29 | 75 | 101 | 27 | 74 | 3 | 2 | 1 | 0 | 0 |
| 394 | DISEASES OF MITRAL VALVE | 46 | 9 | 37 | 45 | 8 | 37 | 1 | 1 | 0 | 0 | 0 |
| 395 | DISEASES OF AORTIC VALVE | 6 | 4 | 2 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 396 | DISEASES OF MITRAL AND AORTIC VALVES | 18 | 4 | 14 | 18 | 4 | 14 | 0 | 0 | 0 | 0 | 0 |
| 397 | DISEASES OF OTHER ENDOCARDIAL STRUCTURES | 15 | 6 | 9 | 13 | 5 | 8 | 2 | 1 | 1 | 0 | 0 |
| 398 | OTHER RHEUMATIC HEART DISEASE | 19 | 6 | 13 | 19 | 6 | 13 | 0 | 0 | 0 | 0 | 0 |
| 401-405 | HYPERTENSIVE DISEASE | 604 | 239 | 365 | 566 | 217 | 349 | 36 | 21 | 15 | 2 | 1 |
| 401 | ESSENTIAL HYPERTENSION | 196 | 76 | 120 | 182 | 69 | 113 | 14 | 7 | 7 | 0 | 0 |
| 402 | HYPERTENSIVE HEART DISEASE | 273 | 114 | 159 | 252 | 102 | 150 | 19 | 11 | 8 | 2 | 1 |
| 403 | HYPERTENSIVE RENAL DISEASE | 101 | 41 | 60 | 98 | 38 | 60 | 3 | 3 | 0 | 0 | 0 |
| 404 | HYPERTENSIVE HEART & RENAL DISEASE | 34 | 8 | 26 | 34 | 8 | 26 | 0 | 0 | 0 | 0 | 0 |
| 410-414 | ISCHEMIC HEART DISEASE | 10148 | 4938 | 5210 | 9837 | 4760 | 5077 | 267 | 144 | 123 | 43 | 33 |
| 410 | ACUTE MYOCARDIAL INFARCTION | 4515 | 2245 | 2270 | 4368 | 2162 | 2206 | 125 | 66 | 59 | 21 | 16 |
| 411 | OTH ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DIS | 7 | 2 | 5 | 7 | 2 | 5 | 0 | 0 | 0 | 0 | 0 |
| 412 | OLD MYOCARDIAL INFARCTION | 15 | 9 | 6 | 15 | 9 | 6 | 0 | 0 | 0 | 0 | 0 |
| 413 | ANGINA PECTORIS | 24 | 7 | 17 | 24 | 7 | 17 | 0 | 0 | 0 | 0 | 0 |
| 414 | OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE | 5587 | 2675 | 2912 | 5423 | 2580 | 2843 | 142 | 78 | 64 | 22 | 17 |
| 415-417 | DISEASES OF PULMONARY CIRCULATION | 252 | 89 | 163 | 237 | 82 | 155 | 14 | 6 | 8 | 1 | 1 |
| 415 | ACUTE PULMONARY HEART DISEASE | 178 | 67 | 111 | 164 | 60 | 104 | 13 | 6 | 7 | 1 | 1 |
| 416 | CHRONIC PULMONARY HEART DISEASE | 71 | 21 | 50 | 70 | 21 | 49 | 1 | 0 | 1 | 0 | 0 |
| 417 | OTHER DISEASES OF PULMONARY CIRCULATION | 3 | 1 | 2 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 420-429 | OTHER FORMS OF HEART DISEASE | 5667 | 2452 | 3215 | 5453 | 2353 | 3100 | 179 | 81 | 98 | 33 | 16 |
| 421 | ACUTE & SUBACUTE ENDOCARDITIS | 23 | 11 | 12 | 21 | 9 | 12 | 2 | 2 | 0 | 0 | 0 |
| 422 | ACUTE MYOCARDITIS | 6 | 4 | 2 | 3 | 3 | 0 | 3 | 1 | 2 | 0 | 0 |
| 423 | OTHER DISEASES OF PERICARDIUM | 11 | 5 | 6 | 8 | 3 | 5 | 1 | 0 | 1 | 2 | 2 |
| 424 | OTHER DISEASES OF ENDOCARDIUM | 508 | 188 | 320 | 495 | 183 | 312 | 13 | 5 | 8 | 0 | 0 |
| 425 | CARDIOMYOPATHY | 514 | 288 | 226 | 486 | 272 | 214 | 24 | 14 | 10 | 4 | 2 |
| 426 | CONDUCTION DISORDERS | 34 | 14 | 20 | 34 | 14 | 20 | 0 | 0 | 0 | 0 | 0 |
| 427 | CARDIAC DYSRHYTHMIAS | 1733 | 747 | 986 | 1654 | 711 | 943 | 64 | 30 | 34 | 15 | 6 |
| 428 | HEART FAILURE | 1592 | 556 | 1036 | 1555 | 543 | 1012 | 34 | 11 | 23 | 3 | 2 |
| 429 | ILL-DEFINED DESCRIPTIONS & COMPLICATIONS HEART DIS | 1246 | 639 | 607 | 1197 | 615 | 582 | 38 | 18 | 20 | 9 | 4 |
| 430-438 | CEREBROVASCULAR DISEASE | 3401 | 1242 | 2159 | 3264 | 1187 | 2077 | 104 | 39 | 65 | 33 | 16 |
| 430 | SUBARACHNOID HEMORRHAGE | 144 | 49 | 95 | 131 | 46 | 85 | 11 | 3 | 8 | 2 | 0 |

TABLE C-15 (CONTINUED)

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | T O T A L S |  |  | W H I T E |  |  | B L A C K |  |  | O T H E R |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE |
|  | VII. DISEASES OF THE CIRCULATORY SYSTEM (CONTINUED) |  |  |  |  |  |  |  |  |  |  |  |
| 431 | INTRACEREBRAL HEMORRHAGE | 432 | 189 | 243 | 406 | 178 | 228 | 19 | 6 | 13 | 7 | 5 |
| 432 | OTH & UNSPECIFIED INTRACRANIAL HEMORRHAGE | 106 | 50 | 56 | 101 | 47 | 54 | 2 | 1 | 1 | 3 | 2 |
| 433 | OCCLUSION & STENOSIS OF PRECEREBRAL ARTERIES | 27 | 17 | 10 | 25 | 16 | 9 | 1 | 1 | 0 | 1 | 0 |
| 434 | OCCLUSION OF CEREBRAL ARTERIES | 268 | 107 | 161 | 260 | 103 | 157 | 7 | 4 | 3 | 1 | 0 |
| 435 | TRANSIENT CEREBRAL ISCHEMIA | 4 | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 436 | ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE | 1793 | 600 | 1193 | 1740 | 580 | 1160 | 40 | 14 | 26 | 13 | 6 |
| 437 | OTH & ILL-DEFINED CEREBROVASCULAR DISEASE | 282 | 96 | 186 | 268 | 91 | 177 | 12 | 5 | 7 | 2 | 0 |
| 438 | LATE EFFECTS OF CEREBROVASCULAR DISEASE | 345 | 134 | 211 | 329 | 126 | 203 | 12 | 5 | 7 | 4 | 3 |
| 440-448 | DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES | 997 | 456 | 541 | 962 | 439 | 523 | 24 | 12 | 12 | 11 | 5 |
| 440 | ATHEROSCLEROSIS | 320 | 107 | 213 | 313 | 105 | 208 | 6 | 2 | 4 | 1 | 0 |
| 441 | AORTIC ANEURYSM | 409 | 230 | 179 | 395 | 222 | 173 | 8 | 5 | 3 | 6 | 3 |
| 442 | OTHER ANEURYSM | 10 | 7 | 3 | 9 | 6 | 3 | 1 | 1 | 0 | 0 | 0 |
| 443 | OTHER PERIPHERAL VASCULAR DISEASE | 197 | 85 | 112 | 187 | 79 | 108 | 7 | 4 | 3 | 3 | 2 |
| 444 | ARTERIAL EMBOLISM & THROMBOSIS | 21 | 8 | 13 | 20 | 8 | 12 | 1 | 0 | 1 | 0 | 0 |
| 446 | POLYARTERITIS NODOSA & ALLIED CONDITIONS | 17 | 9 | 8 | 16 | 9 | 7 | 1 | 0 | 1 | 0 | 0 |
| 447 | OTHER DISORDERS OF ARTERIES & ARTERIOLES | 23 | 10 | 13 | 22 | 10 | 12 | 0 | 0 | 0 | 1 | 0 |
| 451-459 | DISEASES OF VEINS AND LYMPHATICS, AND OTHER DIS. OF CIRCULATORY SYS. | 117 | 45 | 72 | 107 | 40 | 67 | 7 | 4 | 3 | 3 | 1 |
| 451 | PHLEBITIS & THROMBOPHLEBITIS | 14 | 4 | 10 | 13 | 3 | 10 | 1 | 1 | 0 | 0 | 0 |
| 452 | PORTAL VEIN THROMBOSIS | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 453 | OTHER VENOUS EMBOLISM & THROMBOSIS | 15 | 4 | 11 | 13 | 2 | 11 | 1 | 1 | 0 | 1 | 1 |
| 454 | VARICOSE VEINS OF LOWER EXTREMITIES | 7 | 4 | 3 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 0 |
| 456 | VARICOSE VEINS OF OTHER SITES | 10 | 7 | 3 | 9 | 7 | 2 | 1 | 0 | 1 | 0 | 0 |
| 457 | NONINFECTIOUS DISORDERS OF LYMPHATIC CHANNELS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 458 | HYPOTENSION | 34 | 9 | 25 | 30 | 7 | 23 | 3 | 2 | 1 | 1 | 0 |
| 459 | OTHER DISORDERS OF CIRCULATORY SYSTEM | 33 | 17 | 16 | 31 | 17 | 14 | 1 | 0 | 1 | 1 | 0 |
| *460 519 | VIII. DISEASES OF THE RESPIRATORY SYSTEM | 5998 | 2702 | 3296 | 5822 | 2616 | 3206 | 135 | 67 | 68 | 41 | 19 |
| 460-466 | ACUTE RESPIRATORY INFECTIONS | 15 | 7 | 8 | 15 | 7 | 8 | 0 | 0 | 0 | 0 | 0 |
| 466 | ACUTE BRONCHITIS AND BRONCHIOLITIS | 15 | 7 | 8 | 15 | 7 | 8 | 0 | 0 | 0 | 0 | 0 |
| 470-478 | OTHER DISEASES UPPER RESPIRATORY TRACT | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 478 | OTHER DISEASES OF UPPER RESPIRATORY TRACT | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 480-487 | PNEUMONIA AND INFLUENZA | 2667 | 1132 | 1535 | 2583 | 1089 | 1494 | 65 | 35 | 30 | 19 | 8 |
| 480 | VIRAL PNEUMONIA | 8 | 4 | 4 | 8 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| 481 | PNEUMOCOCCAL PNEUMONIA | 48 | 22 | 26 | 44 | 20 | 24 | 4 | 2 | 2 | 0 | 0 |
| 482 | OTHER BACTERIAL PNEUMONIA | 53 | 28 | 25 | 52 | 27 | 25 | 1 | 1 | 0 | 0 | 0 |
| 483 | PNEUMONIA DUE TO OTH SPECIFIED ORGANISM | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 485 | BRONCHOPNEUMONIA ORGANISM UNSPECIFIED | 100 | 50 | 50 | 97 | 47 | 50 | 2 | 2 | 0 | 1 | 1 |
| 486 | PNEUMONIA ORGANISM UNSPECIFIED | 2448 | 1022 | 1426 | 2373 | 986 | 1387 | 57 | 29 | 28 | 18 | 7 |
| 487 | INFLUENZA | 8 | 4 | 4 | 7 | 3 | 4 | 1 | 1 | 0 | 0 | 0 |
| 490-496 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS | 2432 | 1132 | 1300 | 2380 | 1108 | 1272 | 42 | 17 | 25 | 10 | 7 |
| 490 | BRONCHITIS NOT SPECF AS ACUTE OR CHRONIC | 27 | 7 | 20 | 25 | 7 | 18 | 2 | 0 | 2 | 0 | 0 |
| 491 | CHRONIC BRONCHITIS | 50 | 21 | 29 | 49 | 20 | 29 | 0 | 0 | 0 | 1 | 1 |
| 492 | EMPHYSEMA | 402 | 191 | 211 | 396 | 188 | 208 | 5 | 2 | 3 | 1 | 1 |
| 493 | ASTHMA | 116 | 35 | 81 | 101 | 30 | 71 | 15 | 5 | 10 | 0 | 0 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VIII. DISEASES OF THE RESPIRATORY SYSTEM (CONTINUED) | | | | | | | | | | | |
| 494 | BRONCHIECTASIS | 29 | 13 | 16 | 27 | 13 | 14 | 1 | 0 | 1 | 1 | 0 |
| 496 | CHRONIC AIRWAY OBSTRUCTION NEC | 1808 | 865 | 943 | 1782 | 850 | 932 | 19 | 10 | 9 | 7 | 5 |
| 500-508 | PNEUMOCONIOSES AND OTHER LUNG DISEASES DUE TO EXTERNAL AGENTS | 365 | 174 | 191 | 350 | 167 | 183 | 10 | 5 | 5 | 5 | 2 |
| 501 | ASBESTOSIS | 16 | 16 | 0 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| 502 | PNEUMOCONIOSIS DUE TO OTH SILICA,SILICATES | 4 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 507 | PNEUMONITIS DUE TO SOLIDS & LIQUIDS | 345 | 154 | 191 | 330 | 147 | 183 | 10 | 5 | 5 | 5 | 2 |
| 510-519 | OTHER DISEASES OF RESPIRATORY SYSTEM | 516 | 255 | 261 | 491 | 243 | 248 | 18 | 10 | 8 | 7 | 2 |
| 510 | EMPYEMA | 10 | 6 | 4 | 9 | 6 | 3 | 1 | 0 | 1 | 0 | 0 |
| 511 | PLEURISY | 30 | 7 | 23 | 30 | 7 | 23 | 0 | 0 | 0 | 0 | 0 |
| 512 | PNEUMOTHORAX | 15 | 7 | 8 | 14 | 6 | 8 | 1 | 1 | 0 | 0 | 0 |
| 513 | ABSCESS OF LUNG & MEDIASTINUM | 5 | 4 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 514 | PULMONARY CONGESTION AND HYPOSTASIS | 25 | 8 | 17 | 23 | 7 | 16 | 1 | 0 | 1 | 1 | 1 |
| 515 | POSTINFLAMMATORY PULMONARY FIBROSIS | 195 | 105 | 90 | 188 | 102 | 86 | 6 | 3 | 3 | 1 | 0 |
| 516 | OTH ALVEOLAR & PARIETOALVEOLAR PNEUMONOPATHY | 17 | 9 | 8 | 16 | 8 | 8 | 1 | 1 | 0 | 0 | 0 |
| 518 | OTHER DISEASES OF LUNG | 198 | 99 | 99 | 185 | 93 | 92 | 8 | 5 | 3 | 5 | 1 |
| 519 | OTHER DISEASES OF RESPIRATORY SYSTEM | 21 | 10 | 11 | 21 | 10 | 11 | 0 | 0 | 0 | 0 | 0 |
| *520 579 | IX. DISEASES OF THE DIGESTIVE SYSTEM | 1965 | 913 | 1052 | 1874 | 861 | 1013 | 71 | 41 | 30 | 20 | 11 |
| 530-537 | DISEASES OF ESOPHAGUS, STOMACH, AND DUODENUM | 166 | 78 | 88 | 161 | 75 | 86 | 1 | 1 | 0 | 4 | 2 |
| 530 | DISEASES OF ESOPHAGUS | 60 | 31 | 29 | 58 | 30 | 28 | 1 | 1 | 0 | 1 | 0 |
| 531 | GASTRIC ULCER | 27 | 11 | 16 | 25 | 10 | 15 | 0 | 0 | 0 | 2 | 1 |
| 532 | DUODENAL ULCER | 36 | 11 | 25 | 36 | 11 | 25 | 0 | 0 | 0 | 0 | 0 |
| 533 | PEPTIC ULCER SITE UNSPECF | 25 | 12 | 13 | 25 | 12 | 13 | 0 | 0 | 0 | 0 | 0 |
| 534 | GASTROJEJUNAL ULCER | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 535 | GASTRITIS & DUODENITIS | 13 | 11 | 2 | 12 | 10 | 2 | 0 | 0 | 0 | 1 | 1 |
| 536 | DISORDERS OF FUNCTION OF STOMACH | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 537 | OTHER DISORDERS OF STOMACH & DUODENUM | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 540-543 | APPENDICITIS | 3 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| 540 | ACUTE APPENDICITIS | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| 541 | APPENDICITIS,UNQUALIFIED | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 550-553 | HERNIA OF ABDOMINAL CAVITY | 32 | 13 | 19 | 29 | 11 | 18 | 3 | 2 | 1 | 0 | 0 |
| 550 | INGUINAL HERNIA | 5 | 3 | 2 | 4 | 3 | 1 | 1 | 0 | 1 | 0 | 0 |
| 551 | OTH HERNIA OF ABDOMINAL CAVITY WITH GANGRENE | 6 | 1 | 5 | 6 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| 552 | OTH HERNIA ABD CAVITY W OBSTRUCT BUT W/O GANGRENE | 6 | 3 | 3 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| 553 | OTH HERNIA ABD CAVITY W/O OBSTRUCT OR GANGRENE | 15 | 6 | 9 | 13 | 4 | 9 | 2 | 2 | 0 | 0 | 0 |
| 555-558 | NONINFECTIVE ENTERITIS AND COLITIS | 286 | 86 | 200 | 274 | 83 | 191 | 10 | 3 | 7 | 2 | 0 |
| 555 | REGIONAL ENTERITIS | 21 | 7 | 14 | 21 | 7 | 14 | 0 | 0 | 0 | 0 | 0 |
| 556 | IDIOPATHIC PROCTOCOLITIS | 14 | 5 | 9 | 14 | 5 | 9 | 0 | 0 | 0 | 0 | 0 |
| 557 | VASCULAR INSUFFICIENCY OF INTESTINE | 210 | 61 | 149 | 200 | 59 | 141 | 8 | 2 | 6 | 2 | 0 |
| 558 | OTH NONINFECTIOUS GASTROENTERITIS & COLITIS | 41 | 13 | 28 | 39 | 12 | 27 | 2 | 1 | 1 | 0 | 0 |
| 560-569 | OTHER DISEASES OF INTESTINE AND PERITONEUM | 342 | 122 | 220 | 328 | 116 | 212 | 14 | 6 | 8 | 0 | 0 |
| 560 | INTESTINAL OBSTRUCTION W/O MENTION OF HERNIA | 133 | 48 | 85 | 124 | 43 | 81 | 9 | 5 | 4 | 0 | 0 |
| 562 | DIVERTICULA OF INTESTINE | 83 | 30 | 53 | 81 | 30 | 51 | 2 | 0 | 2 | 0 | 0 |
| 564 | FUNCTIONAL DIGESTIVE DISORDERS NEC | 5 | 2 | 3 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |

TABLE C-15 (CONTINUED)

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | IX. DISEASES OF THE DIGESTIVE SYSTEM (CONTINUED) | | | | | | | | | | | |
| 565 | ANAL FISSURE & FISTULA | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 566 | ABSCESS OF ANAL AND RECTAL REGIONS | 4 | 1 | 3 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| 567 | PERITONITIS | 41 | 15 | 26 | 38 | 14 | 24 | 3 | 1 | 2 | 0 | 0 |
| 568 | OTHER DISORDERS OF PERITONEUM | 5 | 3 | 2 | 5 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| 569 | OTHER DISORDERS OF INTESTINE | 70 | 22 | 48 | 70 | 22 | 48 | 0 | 0 | 0 | 0 | 0 |
| 570-579 | OTHER DISEASES OF DIGESTIVE SYSTEM | 1136 | 612 | 524 | 1081 | 576 | 505 | 42 | 28 | 14 | 13 | 8 |
| 570 | ACUTE & SUBACUTE NECROSIS OF LIVER | 9 | 3 | 6 | 9 | 3 | 6 | 0 | 0 | 0 | 0 | 0 |
| 571 | CHRONIC LIVER DISEASE & CIRRHOSIS | 516 | 322 | 194 | 489 | 301 | 188 | 22 | 19 | 3 | 5 | 2 |
| 572 | LIVER ABSCESS & SEQUELAE OF CHRONIC LIVER DISEASE | 152 | 85 | 67 | 139 | 79 | 60 | 10 | 4 | 6 | 3 | 2 |
| 573 | OTHER DISORDERS OF LIVER | 50 | 31 | 19 | 48 | 30 | 18 | 1 | 0 | 1 | 1 | 1 |
| 574 | CHOLELITHIASIS | 28 | 10 | 18 | 27 | 9 | 18 | 1 | 1 | 0 | 0 | 0 |
| 575 | OTHER DISORDERS OF GALLBLADDER | 22 | 11 | 11 | 21 | 10 | 11 | 1 | 1 | 0 | 0 | 0 |
| 576 | OTHER DISORDERS OF BILIARY TRACT | 38 | 16 | 22 | 38 | 16 | 22 | 0 | 0 | 0 | 0 | 0 |
| 577 | DISEASES OF PANCREAS | 60 | 26 | 34 | 58 | 25 | 33 | 1 | 0 | 1 | 1 | 1 |
| 578 | GASTROINTESTINAL HEMORRHAGE | 258 | 108 | 150 | 249 | 103 | 146 | 6 | 3 | 3 | 3 | 2 |
| 579 | INTESTINAL MALABSORPTION | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| *580 629 | X. DISEASES OF THE GENITOURINARY SYSTEM | 1428 | 617 | 811 | 1340 | 582 | 758 | 77 | 32 | 45 | 11 | 3 |
| 580-589 | NEPHRITIS AND NEPHROSIS | 941 | 447 | 494 | 886 | 422 | 464 | 48 | 22 | 26 | 7 | 3 |
| 580 | ACUTE GLOMERULONEPHRITIS | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 581 | NEPHROTIC SYNDROME | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 582 | CHRONIC GLOMERULONEPHRITIS | 21 | 8 | 13 | 19 | 7 | 12 | 2 | 1 | 1 | 0 | 0 |
| 583 | NEPHRITIS & NEPHROPATHY NOT SPECF AS ACUTE/CHRONIC | 8 | 5 | 3 | 8 | 5 | 3 | 0 | 0 | 0 | 0 | 0 |
| 584 | ACUTE RENAL FAILURE | 147 | 67 | 80 | 141 | 65 | 76 | 4 | 1 | 3 | 2 | 1 |
| 585 | CHRONIC RENAL FAILURE | 215 | 118 | 97 | 204 | 114 | 90 | 10 | 4 | 6 | 1 | 0 |
| 586 | RENAL FAILURE, UNSPECIFIED | 542 | 245 | 297 | 507 | 228 | 279 | 31 | 15 | 16 | 4 | 2 |
| 587 | RENAL SCLEROSIS, UNSPECIFIED | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 588 | DISORDERS RESULTING FROM IMPAIRED RENAL FUNCTION | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 590-599 | OTHER DISEASES OF URINARY SYSTEM | 466 | 161 | 305 | 433 | 151 | 282 | 29 | 10 | 19 | 4 | 0 |
| 590 | INFECTIONS OF KIDNEY | 10 | 3 | 7 | 10 | 3 | 7 | 0 | 0 | 0 | 0 | 0 |
| 591 | HYDRONEPHROSIS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 592 | CALCULUS OF KIDNEY & URETER | 6 | 1 | 5 | 5 | 1 | 4 | 1 | 0 | 1 | 0 | 0 |
| 593 | OTHER DISORDERS OF KIDNEY & URETER | 122 | 68 | 54 | 101 | 60 | 41 | 18 | 8 | 10 | 3 | 0 |
| 595 | CYSTITIS | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 596 | OTHER DISORDERS OF BLADDER | 6 | 3 | 3 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| 598 | URETHRAL STRICTURE | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 599 | OTHER DISORDERS OF URETHRA & URINARY TRACT | 318 | 85 | 233 | 307 | 83 | 224 | 10 | 2 | 8 | 1 | 0 |
| 600-608 | DISEASES OF MALE GENITAL ORGANS | 9 | 9 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 600 | HYPERPLASIA OF PROSTATE | 8 | 8 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 608 | OTHER DISORDERS OF MALE GENITAL ORGANS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 610-611 | DISORDERS OF BREAST | 4 | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 611 | OTHER DISORDERS OF BREAST | 4 | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 614-616 | INFLAMMATORY DISEASE OF FEMALE PELVIC ORGANS | 3 | 0 | 3 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 614 | INFLAMM DIS OVARY,FALLP TUBE, PELV TISS,PERITONEUM | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 616 | INFLAMM DISEASE CERVIX VAGINA & VULVA | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 617-629 | OTHER DISORDERS OF FEMALE GENITAL TRACT | 5 | 0 | 5 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | X. DISEASES OF THE GENITOURINARY SYSTEM (CONTINUED) |  |  |  |  |  |  |  |  |  |  |  |
| 618 | GENITAL PROLAPSE | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 619 | FISTULA INVOLVING FEMALE GENITAL TRACT | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 620 | NONINFLAMM DIS OF OVARY,FALLOP TUBE & BROAD LIG | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 626 | DIS MENSTRUATION & OTH ABN BLEED FEMALE GEN TRACT | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| *630 676 | XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND PUERPERIUM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 670-676 | COMPLICATIONS OF THE PUERPERIUM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 673 | OBSTETRICAL PULMONARY EMBOLISM | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *680 709 | XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE | 56 | 8 | 48 | 53 | 7 | 46 | 3 | 1 | 2 | 0 | 0 |
| 680-686 | INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE | 22 | 3 | 19 | 20 | 2 | 18 | 2 | 1 | 1 | 0 | 0 |
| 682 | OTHER CELLULITIS & ABSCESS | 21 | 3 | 18 | 20 | 2 | 18 | 1 | 1 | 0 | 0 | 0 |
| 686 | OTH LOCAL INFECTIONS SKIN & SUBCUTANEOUS TISSUE | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 690-698 | OTHER INFLAMMATORY CONDITIONS OF SKIN AND SUBCUTANEOUS TISSUE | 10 | 0 | 10 | 9 | 0 | 9 | 1 | 0 | 1 | 0 | 0 |
| 694 | BULLOUS DERMATOSES | 8 | 0 | 8 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 695 | ERYTHEMATOUS CONDITIONS | 2 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 700-709 | OTHER DISEASES OF SKIN AND SUBCUTANEOUS TISSUE | 24 | 5 | 19 | 24 | 5 | 19 | 0 | 0 | 0 | 0 | 0 |
| 707 | CHRONIC ULCER OF SKIN | 24 | 5 | 19 | 24 | 5 | 19 | 0 | 0 | 0 | 0 | 0 |
| *710 739 | XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE | 188 | 32 | 156 | 175 | 27 | 148 | 10 | 4 | 6 | 3 | 1 |
| 710-719 | ARTHROPATHIES AND RELATED DISORDERS | 116 | 14 | 102 | 108 | 12 | 96 | 6 | 1 | 5 | 2 | 1 |
| 710 | DIFFUSE DISEASES OF CONNECTIVE TISSUE | 49 | 5 | 44 | 43 | 4 | 39 | 5 | 1 | 4 | 1 | 0 |
| 714 | RHEUMATOID ARTHRITIS & OTH INFLM POLYARTHROPATHIES | 42 | 7 | 35 | 40 | 6 | 34 | 1 | 0 | 1 | 1 | 1 |
| 715 | OSTEOARTHROSIS & ALLIED DISORDERS | 16 | 2 | 14 | 16 | 2 | 14 | 0 | 0 | 0 | 0 | 0 |
| 716 | OTHER & UNSPECIFIED ARTHROPATHIES | 6 | 0 | 6 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 718 | OTHER DERANGEMENT OF JOINT | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 719 | OTHER & UNSPECIFIED DISORDERS OF JOINT | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 720-724 | DORSOPATHIES | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 720 | ANKYLOSING SPONDYLITIS & OTH INFLM SPONDYLOPATHIES | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 721 | SPONDYLOSIS & ALLIED DISORDERS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 725-729 | RHEUMATISM, EXCLUDING THE BACK | 14 | 4 | 10 | 12 | 3 | 9 | 1 | 1 | 0 | 1 | 0 |
| 725 | POLYMYALGIA RHEUMATICA | 2 | 0 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 728 | DISORDERS OF MUSCLE, LIGAMENT & FASCIA | 6 | 1 | 5 | 6 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| 729 | OTHER DISORDERS OF SOFT TISSUES | 6 | 3 | 3 | 4 | 2 | 2 | 1 | 1 | 0 | 1 | 0 |
| 730-739 | OSTEOPATHIES CHRONDROPATHIES & ACQUIRED MUSCULOSKELATAL DEFORMITIES | 56 | 13 | 43 | 53 | 11 | 42 | 3 | 2 | 1 | 0 | 0 |
| 730 | OSTEOMYELITIS, PERIOSTITIS & OTH INFECTIONS OF BONE | 23 | 9 | 14 | 20 | 7 | 13 | 3 | 2 | 1 | 0 | 0 |
| 731 | OSTEITIS DEFORMANS & OSTEOPATHIES ASSOC W OTH DIS CE | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 733 | OTHER DISORDERS OF BONE & CARTILAGE | 24 | 3 | 21 | 24 | 3 | 21 | 0 | 0 | 0 | 0 | 0 |
| 737 | CURVATURE OF SPINE | 8 | 1 | 7 | 8 | 1 | 7 | 0 | 0 | 0 | 0 | 0 |

TABLE C-15 (CONTINUED)

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *740 759 | XIV. CONGENITAL ANOMALIES | 219 | 110 | 109 | 201 | 101 | 100 | 13 | 8 | 5 | 5 | 1 |
| 740 | ANENCEPHALUS & SIMLIAR ANOMALIES | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 742 | OTHER CONGENITAL ANOMALIES OF NERVOUS SYSTEM | 45 | 25 | 20 | 42 | 23 | 19 | 2 | 1 | 1 | 1 | 1 |
| 745 | BULBUS CORDIS ANOMS & ANOMS CARDIAC SEPTAL CLOSURE | 26 | 10 | 16 | 24 | 9 | 15 | 1 | 1 | 0 | 1 | 0 |
| 746 | OTHER CONGENITAL ANOMALIES OF HEART | 46 | 23 | 23 | 41 | 22 | 19 | 4 | 1 | 3 | 1 | 0 |
| 747 | OTHER CONGENITAL ANOMS OF CIRCULATORY SYSTEM | 22 | 10 | 12 | 18 | 8 | 10 | 2 | 2 | 0 | 2 | 0 |
| 748 | CONGENITAL ANOMALIES OF RESPIRATORY SYSTEM | 15 | 10 | 5 | 13 | 8 | 5 | 2 | 2 | 0 | 0 | 0 |
| 750 | OTHER CONGENITAL ANOMS UPPER ALIMENTARY TRACT | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 751 | OTHER CONGENITAL ANOMS OF DIGESTIVE SYSTEM | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 753 | CONGENITAL ANOMS OF URINARY SYSTEM | 11 | 4 | 7 | 11 | 4 | 7 | 0 | 0 | 0 | 0 | 0 |
| 756 | OTHER CONGENITAL MUSCULOSKELETAL ANOMALIES | 10 | 5 | 5 | 10 | 5 | 5 | 0 | 0 | 0 | 0 | 0 |
| 758 | CHROMOSONAL ANOMALIES | 21 | 10 | 11 | 21 | 10 | 11 | 0 | 0 | 0 | 0 | 0 |
| 759 | OTHER & UNSPECIFIED CONGENITAL ANOMALIES | 17 | 10 | 7 | 16 | 10 | 6 | 1 | 0 | 1 | 0 | 0 |
| *760 779 | XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD | 239 | 126 | 113 | 203 | 109 | 94 | 31 | 15 | 16 | 5 | 2 |
| 760 | NEWBORN AFFECTD BY MAT CONDS REL/UNREL TO PREG | 10 | 4 | 6 | 9 | 4 | 5 | 1 | 0 | 1 | 0 | 0 |
| 761 | NEWBORN AFFECTED BY MAT COMPLICATIONS OF PREG | 34 | 17 | 17 | 30 | 15 | 15 | 4 | 2 | 2 | 0 | 0 |
| 762 | NEWBORN AFFECTD COMPLIC PLACENTA, CORD, MEMBRANE | 24 | 13 | 11 | 19 | 9 | 10 | 5 | 4 | 1 | 0 | 0 |
| 763 | NEWBORN AFFECTED OTH COMPLIC LABOR & DELIVERY | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 764 | SLOW FETAL GROWTH & FETAL MALNUTRITION | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 765 | DISORDERS REL TO SHORT GESTATION & UNSPECF LOW BIRTHWT | 69 | 39 | 30 | 60 | 36 | 24 | 7 | 2 | 5 | 2 | 1 |
| 767 | BIRTH TRAUMA | 7 | 3 | 4 | 6 | 2 | 4 | 1 | 1 | 0 | 0 | 0 |
| 768 | INTRAUTERINE HYPOXIA & BIRTH ASPHYXIA | 5 | 0 | 5 | 3 | 0 | 3 | 1 | 0 | 1 | 1 | 0 |
| 769 | RESPIRATORY DISTRESS SYNDROME | 24 | 13 | 11 | 19 | 12 | 7 | 4 | 0 | 4 | 1 | 1 |
| 770 | OTHER RESPIRATORY CONDITIONS OF NEWBORN | 38 | 23 | 15 | 32 | 18 | 14 | 5 | 5 | 0 | 1 | 0 |
| 771 | INFECTIONS SPECIFIC TO THE PERINATAL PERIOD | 7 | 5 | 2 | 7 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| 772 | NEONATAL HEMORRHAGE | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 774 | OTHER PERINATAL JAUNDICE | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 777 | PERINATAL DISORDERS OF DIGESTIVE SYSTEM | 3 | 2 | 1 | 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 |
| 778 | COND INVOLV INTEGUMENT/TEMP REGULATION OF NEWBORN | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 779 | OTH & ILL-DEFINED COND ORIGINATING IN PERINATAL PERIOD | 11 | 5 | 6 | 9 | 4 | 5 | 2 | 1 | 1 | 0 | 0 |
| *780 799 | XVI. SYMPTOMS SIGNS, AND ILL-DEFINED CONDITIONS | 507 | 211 | 296 | 460 | 187 | 273 | 36 | 17 | 19 | 5 | 4 |
| 780-789 | SYMPTOMS | 127 | 53 | 74 | 114 | 45 | 69 | 12 | 7 | 5 | 1 | 1 |
| 780 | GENERAL SYMPTOMS | 32 | 23 | 9 | 24 | 16 | 8 | 7 | 6 | 1 | 1 | 1 |
| 781 | SYMPTOMS INVOLVING NERVOUS & MUSCULOSKELETAL SYS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 783 | SYMPTOMS RE NUTRITION, METABOLISM & DEVELOPMENT | 33 | 12 | 21 | 32 | 12 | 20 | 1 | 0 | 1 | 0 | 0 |
| 785 | SYMPTOMS INVOLVING CARDIOVASCULAR SYSTEM | 52 | 17 | 35 | 48 | 16 | 32 | 4 | 1 | 3 | 0 | 0 |
| 786 | SYMPTOMS INVOLVING RESP SYS & OTHER CHEST SYMPTOMS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 789 | OTHER SYMPTOMS INVOLVING ABDOMEN & PELVIS | 8 | 0 | 8 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 790-796 | NONSPECIFIC ABNORMAL FINDINGS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 790 | NONSPECIFIC FINDINGS ON EXAMINATION OF BLOOD | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 797-799 | ILL-DEFINED AND UNKNOWN CAUSES OF MORBIDITY AND MORTALITY | 379 | 158 | 221 | 345 | 142 | 203 | 24 | 10 | 14 | 4 | 3 |
| 797 | SENILITY W/O MENTION OF PSYCHOSIS | 19 | 3 | 16 | 19 | 3 | 16 | 0 | 0 | 0 | 0 | 0 |
| 798 | SUDDEN DEATH, CAUSE UNKNOWN | 32 | 17 | 15 | 22 | 12 | 10 | 8 | 3 | 5 | 2 | 2 |
| 799 | OTH ILL-DEFINED & UNK CAUSES OF MORBIDITY/MORTALITY | 328 | 138 | 190 | 304 | 127 | 177 | 16 | 7 | 9 | 2 | 1 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2314 | 1550 | 764 | 2108 | 1404 | 704 | 160 | 118 | 42 | 45 | 27 | 1 |
| *800 999 | XVII. EXTERNAL CAUSES OF INJURY AND POISONING | | | | | | | | | | | | |
| 800-807 | RAILWAY ACCIDENTS | 11 | 8 | 3 | 10 | 7 | 3 | 1 | 1 | 0 | 0 | 0 | |
| 805 | HIT BY ROLLING STOCK | 11 | 8 | 3 | 10 | 7 | 3 | 1 | 1 | 0 | 0 | 0 | |
| 810-819 | MOTOR VEHICLE TRAFFIC ACCIDENTS | 497 | 329 | 168 | 447 | 299 | 148 | 37 | 24 | 13 | 13 | 6 | |
| 810 | M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ TRAIN | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 812 | OTHER M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ M/V | 100 | 63 | 37 | 91 | 59 | 32 | 7 | 3 | 4 | 2 | 1 | |
| 813 | M/V TRAFFIC ACCIDENT INVOLV COLLISION W/ OTH VEHICLE | 12 | 10 | 2 | 11 | 9 | 2 | 1 | 1 | 0 | 0 | 0 | |
| 814 | M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ PEDESTRIAN | 93 | 50 | 43 | 81 | 44 | 37 | 5 | 4 | 1 | 7 | 2 | |
| 815 | OTHER M/V TRAFFIC ACCIDENT INVOLV COLLISION ON HIGHWAY | 120 | 91 | 29 | 109 | 81 | 28 | 9 | 8 | 1 | 2 | 2 | |
| 816 | M/V TRAFF ACC DUE TO LOSS CONTROL W/O COLLISION ON HWY | 27 | 19 | 8 | 22 | 17 | 5 | 5 | 2 | 3 | 0 | 0 | |
| 817 | NON-COLLISION M/V TRAFFIC ACC WHILE BOARDING/ALIGHTING | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 818 | OTHER NON-COLLISION M/V TRAFFIC ACCIDENT | 8 | 4 | 4 | 7 | 4 | 3 | 1 | 0 | 1 | 0 | 0 | |
| 819 | M/V TRAFFIC ACCIDENT UNSPECIFIED NATURE | 133 | 89 | 44 | 122 | 82 | 40 | 9 | 6 | 3 | 2 | 1 | |
| 820-825 | MOTOR VEHICLE NONTRAFFIC ACCIDENTS | 4 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 820 | NON-TRAFFIC ACCIDENT INVOLVING SNOW VEHICLE | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 822 | OTH M/V NON-TRAFFIC ACC INVOLV COLLISION MOVING OBJ | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 823 | OTH M/V NON-TRAFFIC ACC INVOLV COLLISION STATNRY OBJ | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 826-829 | OTHER ROAD VEHICLE ACCIDENTS | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 826 | PEDAL CYCLE ACCIDENT | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 830-838 | WATER TRANSPORT ACCIDENTS | 11 | 10 | 1 | 11 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 830 | ACCIDENT TO WATERCRAFT CAUSING SUBMERSION | 4 | 3 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 832 | OTH ACCIDENTAL SUBMERS/DROWN IN WATER TRANSP ACCIDENT | 5 | 5 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 838 | OTH & UNSPECF WATER TRANSPORT ACCIDENT | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 840-845 | AIR AND SPACE TRANSPORT ACCIDENTS | 8 | 7 | 1 | 8 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 841 | ACCIDENT TO POWERED AIRCRAFT, OTH & UNSPECF | 8 | 7 | 1 | 8 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 846-848 | VEHICLE ACCIDENTS NOT ELSEWHERE CLASSIFIED | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 848 | ACCIDENTS INVOLV OTHER VEHICLES NEC | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 850-858 | ACCIDENTAL POISONING BY DRUGS AND MEDICAMENTS | 23 | 12 | 11 | 22 | 12 | 10 | 1 | 0 | 1 | 0 | 0 | |
| 850 | ACC POISON BY ANALGESICS, ANTIPYRETICS, ANTIRHEUMATICS | 5 | 2 | 3 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 854 | ACCIDENTAL POISONING BY OTH PSYCHOTROPIC AGENTS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 855 | ACC POISON BY OTH DRUGS ACTING ON CNS & AUTONOM NS | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 856 | ACCIDENTAL POISONING BY ANTIBIOTICS | 4 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | |
| 858 | ACCIDENTAL POISONING BY OTHER DRUGS | 10 | 4 | 6 | 10 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | |
| 860-869 | ACCIDENTAL POISONING BY OTHER SUBSTANCES GASES AND VAPOURS | 6 | 5 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 1 | 1 | |
| 860 | ACCIDENTAL POISONING BY ALCOHOL NEC | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 865 | ACCIDENTAL POISONING FROM FOODSTUFFS & POISON PLANTS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 866 | ACC POISONING BY OTH & UNSPECF SOLID/LIQUID SUBS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 868 | ACC POISONING BY OTH UTILITY GAS & OTH CARBON MONOX | 3 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | |
| 870-876 | MISADVENTURE TO PATIENTS DURING SURGICAL AND MEDICAL CARE | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 876 | OTH & UNSPECF MISADVENTURES DURING MEDICAL CARE | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 878-879 | SURGICAL & MEDICAL PROCEDURES AS CAUSE OF LATER COMPLICATION | 30 | 16 | 14 | 30 | 16 | 14 | 0 | 0 | 0 | 0 | 0 | |
| 878 | SURG OPER CAUSE ABNORM REACT/COMPL W/O MISADVENTURE | 25 | 13 | 12 | 25 | 13 | 12 | 0 | 0 | 0 | 0 | 0 | |
| 879 | OTH PROCED W/O MISADVENTURE CAUSING ABNORM REACTION | 5 | 3 | 2 | 5 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 880-888 | ACCIDENTAL FALLS | 360 | 168 | 192 | 351 | 160 | 191 | 6 | 6 | 0 | 3 | 2 | |

## TABLE C-15 (CONTINUED)

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS | | | WHITE | | | BLACK | | | OTHER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALE | FEM | TOT | MALF | F |
| | XVII. EXTERNAL CAUSES OF INJURY AND POISONING (CONTINUED) | | | | | | | | | | | | |
| 880 | FALL ON OR FROM STAIRS OR STEPS | 40 | 18 | 22 | 39 | 17 | 22 | 1 | 1 | 0 | 0 | 0 | |
| 881 | FALL ON OR FROM LADDERS OR SCAFFOLDING | 15 | 15 | 0 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 882 | FALL FROM OR OUT OF BUILDING OR OTHER STRUCTURE | 26 | 22 | 4 | 22 | 18 | 4 | 2 | 2 | 0 | 2 | 2 | |
| 883 | FALL INTO HOLE OR OTHER OPENING IN SURFACE | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 884 | OTHER FALL FROM ONE LEVEL TO ANOTHER | 6 | 4 | 2 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 885 | FALL ON SAME LEVEL FROM SLIPPING,TRIPPING,STUMBLING | 12 | 8 | 4 | 12 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | |
| 887 | FRACTURE, CAUSE UNSPECIFIED | 173 | 49 | 124 | 172 | 49 | 123 | 0 | 0 | 0 | 1 | 0 | |
| 888 | OTHER & UNSPECIFIED FALL | 86 | 50 | 36 | 83 | 47 | 36 | 3 | 3 | 0 | 0 | 0 | |
| 890-899 | ACCIDENTS CAUSED BY FIRES AND FLAMES | 50 | 28 | 22 | 42 | 22 | 20 | 5 | 3 | 2 | 3 | 3 | |
| 890 | CONFLAGRATION IN PRIVATE DWELLING | 36 | 19 | 17 | 28 | 13 | 15 | 5 | 3 | 2 | 3 | 3 | |
| 891 | CONFLAGRATION IN OTH & UNSPECF BUILDING/STRUCTURE | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 893 | ACCIDENT CAUSED BY IGNITION OF CLOTHING | 5 | 1 | 4 | 5 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | |
| 894 | IGNITION OF HIGHLY INFLAMMABLE MATERIAL | 4 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 895 | ACCIDENT CAUSED BY CONTROLLED FIRE IN PRIV DWELLING | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 897 | ACC CAUSED BY CONTROLLED FIRE NOT IN BLDG/STRUCTURE | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 899 | ACCIDENT CAUSED BY UNSPECIFIED FIRE | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 900-909 | ACCIDENTS CAUSED BY NATURAL AND ENVIRONMENTAL FACTORS | 12 | 7 | 5 | 12 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | |
| 900 | EXCESSIVE HEAT | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 901 | EXCESSIVE COLD | 7 | 4 | 3 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 902 | HIGH & LOW AIR PRESSURE & CHANGES IN AIR PRESSURE | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 906 | OTH INJURY CAUSED BY ANIMALS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 909 | CATACLYSMIC EARTH SURFACE MOVEMENTS & ERUPTIONS | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 910-915 | ACCIDENTS CAUSED BY SUBMERSION SUFFOCATION & FOREIGN BODIES | 138 | 81 | 57 | 125 | 72 | 53 | 8 | 4 | 4 | 5 | 5 | |
| 910 | ACCIDENTAL DROWNING & SUBMERSION | 51 | 44 | 7 | 41 | 35 | 6 | 5 | 4 | 1 | 5 | 5 | |
| 911 | INHALATION, INGESTION OF FOOD CAUSING OBST/SUFFOC | 13 | 4 | 9 | 13 | 4 | 9 | 0 | 0 | 0 | 0 | 0 | |
| 912 | INHALATION, INGESTION OF OTH OBJECT CAUSE OBST/SUFFOC | 67 | 29 | 38 | 64 | 29 | 35 | 3 | 0 | 3 | 0 | 0 | |
| 913 | ACCIDENTAL MECHANICAL SUFFOCATION | 7 | 4 | 3 | 7 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | |
| 916-928 | OTHER ACCIDENTS | 90 | 60 | 30 | 86 | 57 | 29 | 4 | 3 | 1 | 0 | 0 | |
| 916 | STRUCK ACCIDENTALLY BY FALLING OBJECT | 7 | 7 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 917 | STRUCK AGAINST OR ACCIDENTALLY BY OBJECTS OR PERSONS | 8 | 6 | 2 | 8 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | |
| 919 | ACCIDENTS CAUSED BY MACHINERY | 4 | 4 | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | |
| 920 | ACCIDENTS CAUSED BY CUTTING/PIERCING INSTRUMENTS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 922 | ACCIDENT CAUSED BY FIREARM MISSILE | 4 | 3 | 1 | 3 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | |
| 923 | ACCIDENT CAUSED BY EXPLOSIVE MATERIAL | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 925 | ACCIDENT CAUSED BY ELECTRIC CURRENT | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 928 | OTH & UNSPECF ENVIRONMENTAL/ACCIDENTAL CAUSES | 62 | 35 | 27 | 60 | 34 | 26 | 2 | 1 | 1 | 0 | 0 | |
| 929-929 | LATE EFFECTS OF ACCIDENTAL INJURY | 33 | 19 | 14 | 31 | 18 | 13 | 1 | 0 | 1 | 1 | 1 | |
| 929 | LATE EFFECTS OF ACCIDENTAL INJURY | 33 | 19 | 14 | 31 | 18 | 13 | 1 | 0 | 1 | 1 | 1 | |
| 930-949 | DRUGS MEDICAMENTS AND BIOLOGICAL SUBSTANCES IN THERAPY | 4 | 3 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 938 | ADVERSE EFFECTS OTH CNS DEPRESSANTS & ANESTHETICS | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 947 | ADVERSE EFFECTS OTH & UNSPECF DRUGS & MEDICINAL SUBS | 3 | 2 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 950-959 | SUICIDE AND SELF-INFLICTED INJURY | 487 | 391 | 96 | 460 | 372 | 88 | 17 | 15 | 2 | 10 | 4 | 6 |
| 950 | SUICIDE & SELF-INFLIC POISONING SOLID/LIQUID SUBS | 70 | 37 | 33 | 68 | 36 | 32 | 0 | 0 | 0 | 2 | 1 | 1 |
| 952 | SUICIDE & SELF-INFLIC POISONING OTHER GASES/VAPORS | 33 | 28 | 5 | 32 | 27 | 5 | 1 | 1 | 0 | 0 | 0 | 0 |

TABLE C-15

1997

| ICD. LIST NUMBER | CAUSE OF DEATH | TOTALS TOT | TOTALS MALE | TOTALS FEM | WHITE TOT | WHITE MALE | WHITE FEM | BLACK TOT | BLACK MALE | BLACK FEM | OTHER TOT | OTHER MALE | OTHER F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | XVII. EXTERNAL CAUSES OF INJURY AND POISONING (CONTINUED) | | | | | | | | | | | | |
| 953 | SUICIDE & SELF-INFLIC INJURY HANGING,STRANGUL,SUFFOC | 182 | 152 | 30 | 169 | 141 | 28 | 10 | 10 | 0 | 3 | 1 | |
| 954 | SUICIDE & SELF-INFLIC INJURY BY DROWNING | 9 | 4 | 5 | 8 | 4 | 4 | 0 | 0 | 0 | 1 | 0 | |
| 955 | SUICIDE & SELF-INFLIC INJURY BY FIREARMS/EXPLOSIVES | 141 | 132 | 9 | 137 | 130 | 7 | 3 | 2 | 1 | 1 | 0 | |
| 956 | SUICIDE & SELF-INFLIC INJURY BY CUTTING/PIERCING INST | 16 | 11 | 5 | 15 | 11 | 4 | 1 | 0 | 1 | 0 | 0 | |
| 957 | SUICIDE & SELF-INFLIC INJURY BY JUMPING-HIGH PLACE | 17 | 14 | 3 | 13 | 11 | 2 | 1 | 1 | 0 | 3 | 2 | |
| 958 | SUICIDE & SELF-INFLIC INJURY BY OTH & UNSPECIF MEANS | 17 | 11 | 6 | 16 | 10 | 6 | 1 | 1 | 0 | 0 | 0 | |
| 959 | LATE EFFECTS OF SELF-INFLICTED INJURY | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 960-969 | HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSONS | 137 | 97 | 40 | 90 | 61 | 29 | 42 | 34 | 8 | 5 | 2 | |
| 963 | ASSAULT BY HANGING AND STRANGULATION | 7 | 4 | 3 | 6 | 4 | 2 | 1 | 0 | 1 | 0 | 0 | |
| 965 | ASSAULT BY FIREARMS AND EXPLOSIVES | 71 | 58 | 13 | 42 | 34 | 8 | 27 | 23 | 4 | 2 | 1 | |
| 966 | ASSAULT BY CUTTING AND PIERCING INSTRUMENT | 30 | 18 | 12 | 20 | 10 | 10 | 9 | 7 | 2 | 1 | 1 | |
| 968 | ASSAULT BY OTHER & UNSPECIFIED MEANS | 29 | 17 | 12 | 22 | 13 | 9 | 5 | 4 | 1 | 2 | 0 | |
| 970-978 | LEGAL INTERVENTION | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | |
| 975 | INJURY DUE TO LEGAL INTERVEN BY OTHER SPECF MEANS | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | |
| 980-989 | INJURY UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED | 408 | 300 | 108 | 366 | 269 | 97 | 37 | 27 | 10 | 4 | 3 | |
| 980 | POISONING BY SOLID/LIQ SUBS, UNDETERMINED INTENT | 363 | 269 | 94 | 326 | 241 | 85 | 34 | 25 | 9 | 2 | 2 | |
| 982 | POISONING BY OTHER GASES, UNDETERMINED INTENT | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 983 | HANGING, STRANGUL, SUFFOCATION, UNDETERMINED INTENT | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 984 | DROWNING, UNDETERMINED INTENT | 17 | 11 | 6 | 14 | 10 | 4 | 2 | 1 | 1 | 1 | 0 | |
| 985 | INJURY BY FIREARMS/EXPLOSIVES, UNDETERMINED INTENT | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 987 | FALLING FROM HIGH PLACE, UNDETERMINED INTENT | 5 | 4 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | |
| 988 | INJURY BY OTH & UNSPECF MEANS, UNDETERMINED INTENT | 16 | 10 | 6 | 14 | 8 | 6 | 1 | 1 | 0 | 1 | 1 | |
| 989 | LATE EFFECTS OF INJURY, UNDETERMINED INTENT | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | |
| *** | RESIDENT GRAND TOTALS | 54634 | 25373 | 29261 | 52146 | 24081 | 28065 | 2033 | 1052 | 981 | 445 | 233 | 21 |

TOTALS INCLUDE 10 OF UNKNOWN RACE: 7 MALES AND 3 FEMALES.

# INFANT & NEONATAL DEATHS

# SECTION D

## INFANT AND NEONATAL DEATHS

The total number of resident infant deaths (deaths of children less than 1 year of age) increased by 5.5% in Massachusetts from 403 in 1996 to 425 in 1997. The rate of infant deaths also increased -- from 5.0 infant deaths per 1,000 live births in 1996 to 5.3 infant deaths per 1,000 live births in 1997. As with live births and other deaths, all Massachusetts resident infant deaths are included regardless of the state in which they occurred. Neonatal deaths (deaths of infants under 28 days of age) increased from 290 in 1996 to 323 in 1997, an increase of 11.4%. The rate of neonatal deaths also increased, from 3.6 in 1996 to 4.0 in 1997.

### INFANT DEATHS BY RACE

Beginning with the publication of 1989 data, several changes occurred in the method of calculating infant mortality rates (IMRs) by race and ethnicity. These changes affect only the calculation of race/ethnic infant mortality rates; all other data presented in this publication are comparable to information from previous years. These changes are the result of new federal recommendations for analyzing birth information, including infant mortality data, and the implementation of the new Massachusetts Standard Certificate of Death in 1989.

Infants born to black non-Hispanic mothers continue to have the highest infant mortality rates (IMRs). The IMR for black non-Hispanics in 1997 was 11.7 per 1,000 live births. This represents a small increase from the 1996 rate, and it is nearly three times higher than the IMR for white non-Hispanic infants.

In 1997, the IMR for Hispanics was 6.7 per 1,000 live births, representing a 31% increase from the 1996 rate. The mortality experience of infants born to Hispanic mothers is more similar to the experience of infants born to white non-Hispanic mothers than to black non-Hispanic mothers. The 1997 IMR of 6.7 for Hispanic infants is 40% higher than the white non-Hispanic rate and 43% below the black non-Hispanic rate.

Asian mothers had the lowest rates of infant mortality compared to the other race/ethnicity groups. This is consistent with prior years with the exception of 1995. In 1997, the Asian IMR was 2.6 deaths per 1,000 live births. However, caution should be used when interpreting this rate since it is based on a small number (10) of deaths.

### INFANT DEATHS BY CAUSE

"Certain conditions originating in the perinatal period" (medical conditions arising from approximately 28 weeks gestation to 28 days of age) was the leading cause of death for white, black and Hispanic infants. Congenital anomalies represented the second leading cause of death among white and Hispanic infants, whereas "All Other Causes" was the second and "Symptoms, signs and ill-defined conditions" (primarily sudden infant death syndrome (SIDS)) was the third leading cause of death for black infants.

The overall leading causes of infant death were conditions arising in the perinatal period (234 deaths) and congenital anomalies (86 deaths), 7% and 18% increases, respectively, from 1996. Other causes of infant death were: SIDS (30 deaths), "Other diseases of nervous system and sense organs" (10 deaths), disease of the respiratory system (9 deaths), and homicide (3 deaths). There were 10 fewer deaths from SIDS in 1997 than there were in 1996, representing a 25% decrease. The number of homicide deaths (3) has remained constant since 1994.

SIDS remains the leading cause of death in the post-neonatal period (28-364 days), while "disorders relating to short gestation and low birthweight" was the leading cause in the neonatal period.

## NEONATAL AND POST NEONATAL MORTALITY RATES

The neonatal mortality rate (infants less than 28 days old) was 4.0 deaths per 1,000 live births in 1997. Among white non-Hispanic mothers, the neonatal mortality rate increased slightly, from 3.6 in 1996 to 3.7 in 1997. During this same time period, the rate increased by 29% among black non-Hispanic mothers (from 6.2 in 1996 to 8.0 in 1997) and by 48.6% among Hispanic mothers (from 3.5 in 1996 to 5.2 in 1997). Among Asians, the number of neonatal deaths increased slightly from 5 in 1996 to 7 in 1997, resulting in a 28.6% increase in the neonatal mortality rates. (These rates should be interpreted cautiously since they are based on very few deaths.)

The overall post neonatal mortality rate, representing the number of deaths of infants between 28 and 364 days of age per 1,000 live births, was slightly less in 1997 than in 1996, declining from 1.4 to 1.3. The most marked change was among infants of black non-Hispanic mothers, where the post neonatal mortality rate decreased markedly between 1996 and 1997, from 5.3 in 1996 to 3.7 deaths per 1,000 births in 1997.

There was a small decline in the number of post neonatal deaths among Hispanics, from 13 to 12, corresponding to a rate decrease of 11.8%. The number of post neonatal deaths among Asians did not change from 1996 to 1997.

## DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

### INFANT DEATH

Death of a child whose age is less than one year (365 days).

### NEONATAL DEATH

Death of a child whose age is less than 28 days.

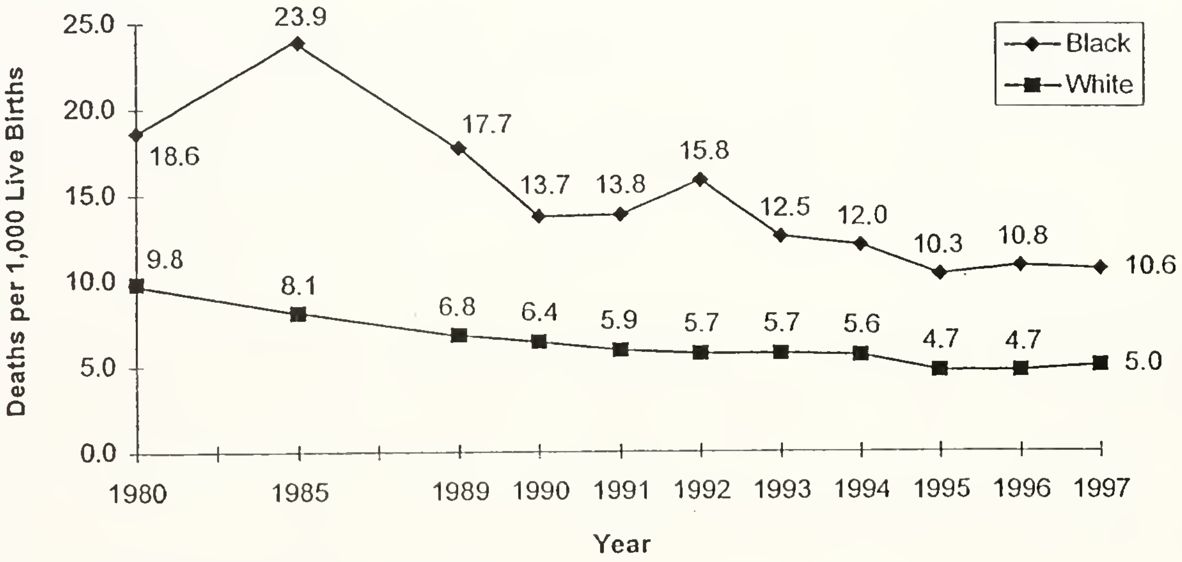
### POST NEONATAL DEATH

Death of a child whose age is at least 28 days, but less than one year.

## RATES IMPORTANT FOR THIS SECTION INCLUDE:

| | |
|---|---|
| **INFANT MORTALITY RATE (IMR)** | $\frac{\text{\# of Resident Deaths at Less than 1 Year of Age}}{\text{Total Resident Live Births}} \times 1{,}000$ |
| **NEONATAL MORTALITY RATE (NMR)** | $\frac{\text{\# of Resident Deaths at Less than 28 Days of Age}}{\text{Total Resident Live Births}} \times 1{,}000$ |
| **POST NEONATAL MORTALITY RATE (PNMR)** | $\frac{\text{\# of Resident Deaths at Least 28 Days Old but <365 Days Old}}{\text{Total Resident Live Births}} \times 1{,}000$ |

Figure D-1. Infant Mortality Rates[1,2] by Race[3]
Massachusetts: 1980, 1985, 1989-1997

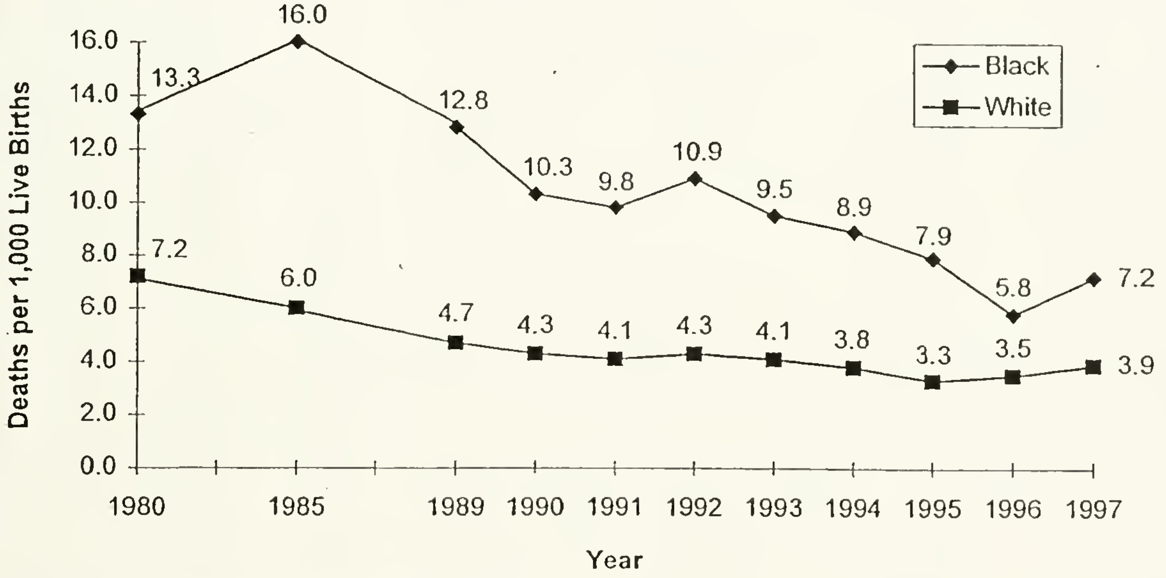


[1] Infant mortality rates are per 1,000 live births.

[2] Infant: A child less than one year (365 days) old.

[3] For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

Figure D-2. Neonatal Mortality Rates[1,2] by Race[3]
Massachusetts: 1980, 1985, 1989-1997



[1] Neonatal mortality rates are per 1,000 live births.

[2] Neonatal: A child less than 28 days old.

[3] For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

## Table D-1. Trends in Infant, Neonatal, and Post-Neonatal Mortality by Race and Hispanic Ethnicity, Massachusetts: 1989-1997

### INFANT MORTALITY

| Year | State Total[1] | | White non-Hispanic | | Black non-Hispanic | | Hispanic | | Asian | | Other[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] |
| 1989 | 697 | 7.6 | 482 | 6.6 | 126 | 18.8 | 67 | 8.6 | 15 | 4.6 | 7 | 8.1 |
| 1990 | 649 | 7.0 | 442 | 6.1 | 98 | 13.7 | 77 | 9.1 | 24 | 7.0 | 8 | 9.5 |
| 1991 | 577 | 6.5 | 381 | 5.5 | 101 | 15.0 | 80 | 9.4 | 14 | 4.2 | 1 | –[4] |
| 1992 | 569 | 6.5 | 371 | 5.5 | 110 | 16.4 | 67 | 7.9 | 16 | 4.9 | 5 | 5.1 |
| 1993 | 523 | 6.2 | 346 | 5.3 | 84 | 13.1 | 77 | 9.3 | 13 | 3.9 | 3 | –[4] |
| 1994 | 499 | 6.0 | 343 | 5.3 | 79 | 12.6 | 64 | 7.6 | 8 | 2.4 | 5 | 5.3 |
| 1995 | 419 | 5.1 | 275 | 4.4 | 65 | 11.1 | 58 | 7.2 | 19 | 5.5 | 2 | –[4] |
| 1996 | 403 | 5.0 | 289 | 4.7 | 63 | 11.4 | 40 | 5.1 | 8 | 2.2 | 2 | –[4] |
| 1997 | 425 | 5.3 | 294 | 4.8 | 64 | 11.7 | 55 | 6.7 | 10 | 2.6 | 2 | –[4] |

### NEONATAL MORTALITY

| Year | State Total[1] | | White non-Hispanic | | Black non-Hispanic | | Hispanic | | Asian | | Other[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] |
| 1989 | 479 | 5.2 | 327 | 4.5 | 93 | 13.9 | 49 | 6.3 | 6 | 1.8 | 4 | –[4] |
| 1990 | 446 | 4.8 | 298 | 4.1 | 75 | 10.5 | 49 | 5.8 | 19 | 5.5 | 5 | 5.5 |
| 1991 | 401 | 4.5 | 266 | 3.9 | 72 | 10.7 | 53 | 6.2 | 10 | 3.0 | 0 | 0.0 |
| 1992 | 415 | 4.8 | 274 | 4.0 | 76 | 11.4 | 51 | 6.0 | 10 | 3.0 | 4 | –[4] |
| 1993 | 375 | 4.4 | 245 | 3.7 | 64 | 10.0 | 55 | 6.7 | 9 | 2.7 | 2 | –[4] |
| 1994 | 349 | 4.2 | 240 | 3.7 | 58 | 9.3 | 40 | 4.7 | 7 | 2.1 | 4 | –[4] |
| 1995 | 298 | 3.6 | 198 | 3.1 | 50 | 8.5 | 39 | 4.8 | 10 | 2.9 | 1 | –[4] |
| 1996 | 290 | 3.6 | 222 | 3.6 | 34 | 6.2 | 27 | 3.5 | 5 | 1.4 | 1 | –[4] |
| 1997 | 323 | 4.0 | 228 | 3.7 | 44 | 8.0 | 43 | 5.2 | 7 | 1.8 | 1 | –[4] |

### POST-NEONATAL MORTALITY

| Year | State Total[1] | | White non-Hispanic | | Black non-Hispanic | | Hispanic | | Asian | | Other[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] | # | Rate[3] |
| 1989 | 218 | 2.4 | 155 | 2.1 | 33 | 4.9 | 18 | 2.3 | 9 | 2.8 | 3 | –[4] |
| 1990 | 203 | 2.2 | 144 | 2.0 | 23 | 3.2 | 28 | 3.3 | 5 | 1.5 | 3 | –[4] |
| 1991 | 176 | 2.0 | 115 | 1.7 | 29 | 4.3 | 27 | 3.2 | 4 | –[6] | 1 | –[4] |
| 1992 | 154 | 1.8 | 97 | 1.4 | 34 | 5.1 | 16 | 1.9 | 6 | 1.8 | 1 | –[4] |
| 1993 | 148 | 1.7 | 101 | 1.5 | 20 | 3.1 | 22 | 2.7 | 4 | –[6] | 1 | –[4] |
| 1994 | 150 | 1.8 | 103 | 1.6 | 21 | 3.3 | 24 | 2.8 | 1 | –[6] | 1 | –[4] |
| 1995 | 121 | 1.5 | 77 | 1.2 | 15 | 2.6 | 19 | 2.3 | 9 | 2.6 | 1 | –[4] |
| 1996 | 113 | 1.4 | 67 | 1.1 | 29 | 5.3 | 13 | 1.7 | 3 | –[6] | 1 | –[4] |
| 1997 | 102 | 1.3 | 66 | 1.1 | 20 | 3.7 | 12 | 1.5 | 3 | –[6] | 1 | –[4] |

---

[1] Deaths of infants of unknown race are included in the total calculation. For rate computations, births of infants of unknown race are allocated into the race categories according to the distribution of births of known race.

[2] Other: American Indian and Other races.

[3] Rates are expressed per 1,000 live births.

[4] Calculations based on fewer than five events are excluded.

## Table D-2. Trends in Infant, Neonatal, and Post-Neonatal Mortality by Race[1], Massachusetts: 1980-1997

### INFANT MORTALITY

| | State Total[2] | | White | | Black | | Asian/Other[3] | |
|---|---|---|---|---|---|---|---|---|
| Year | # | Rate[4] | # | Rate[4] | # | Rate[4] | # | Rate[4] |
| 1980 | 748 | 10.3 | 655 | 9.8 | 87 | 18.6 | 5 | 4.6 |
| 1981 | 710 | 9.6 | 616 | 9.1 | 85 | 18.2 | 8 | 6.1 |
| 1982 | 764 | 10.1 | 656 | 9.4 | 102 | 21.3 | 5 | 3.3 |
| 1983 | 682 | 9.0 | 579 | 8.3 | 89 | 19.0 | 12 | 7.4 |
| 1984 | 699 | 8.9 | 601 | 8.4 | 82 | 16.4 | 13 | 7.5 |
| 1985 | 745 | 9.1 | 608 | 8.1 | 126 | 23.8 | 11 | 6.1 |
| 1986 | 695 | 8.4 | 560 | 7.5 | 123 | 22.0 | 11 | 4.6 |
| 1987 | 608 | 7.2 | 486 | 6.4 | 110 | 17.5 | 12 | 4.5 |
| 1988 | 693 | 7.9 | 546 | 7.0 | 133 | 19.5 | 13 | 3.8 |
| 1989 | 697 | 7.6 | 549 | 6.8 | 131 | 17.7 | 17 | 4.8 |
| 1990 | 649 | 7.0 | 519 | 6.4 | 106 | 13.7 | 24 | 6.5 |
| 1991 | 577 | 6.5 | 461 | 6.0 | 102 | 13.8 | 14 | 3.9 |
| 1992 | 569 | 6.5 | 438 | 5.7 | 114 | 15.8 | 17 | 4.7 |
| 1993 | 523 | 6.2 | 423 | 5.7 | 87 | 12.5 | 13 | 3.5 |
| 1994 | 499 | 6.0 | 407 | 5.6 | 81 | 12.0 | 11 | 2.9 |
| 1995 | 419 | 5.1 | 333 | 4.7 | 65 | 10.3 | 21 | 5.5 |
| 1996 | 403 | 5.0 | 329 | 4.7 | 65 | 10.8 | 8 | 2.0 |
| 1997 | 425 | 5.3 | 349 | 5.0 | 66 | 10.6 | 10 | 2.4 |

### NEONATAL MORTALITY

| | State Total[2] | | White | | Black | | Asian/Other[3] | |
|---|---|---|---|---|---|---|---|---|
| Year | # | Rate[4] | # | Rate[4] | # | Rate[4] | # | Rate[4] |
| 1980 | 550 | 7.6 | 483 | 7.2 | 62 | 13.3 | 5 | 4.6 |
| 1981 | 510 | 6.9 | 442 | 6.5 | 59 | 12.4 | 5 | 3.8 |
| 1982 | 573 | 7.6 | 494 | 7.1 | 75 | 15.7 | 3 | --[5] |
| 1983 | 482 | 6.3 | 411 | 5.9 | 63 | 13.4 | 7 | 4.3 |
| 1984 | 472 | 6.0 | 411 | 5.8 | 49 | 9.8 | 8 | 4.6 |
| 1985 | 538 | 6.6 | 447 | 6.0 | 85 | 16.0 | 5 | 2.8 |
| 1986 | 478 | 5.8 | 383 | 5.2 | 89 | 15.9 | 5 | 2.1 |
| 1987 | 432 | 5.1 | 343 | 4.6 | 80 | 12.7 | 9 | 3.4 |
| 1988 | 477 | 5.4 | 383 | 4.9 | 87 | 12.8 | 6 | 1.8 |
| 1989 | 479 | 5.2 | 376 | 4.7 | 95 | 12.8 | 8 | 2.3 |
| 1990 | 446 | 4.8 | 347 | 4.3 | 80 | 10.3 | 9 | 5.1 |
| 1991 | 401 | 4.5 | 319 | 4.1 | 72 | 9.8 | 10 | 2.8 |
| 1992 | 415 | 4.8 | 325 | 4.3 | 79 | 10.9 | 11 | 3.1 |
| 1993 | 375 | 4.4 | 300 | 4.1 | 66 | 9.5 | 9 | 2.4 |
| 1994 | 349 | 4.2 | 280 | 3.8 | 60 | 8.9 | 9 | 2.4 |
| 1995 | 298 | 3.6 | 237 | 3.3 | 50 | 7.9 | 11 | 2.9 |
| 1996 | 290 | 3.6 | 249 | 3.5 | 35 | 5.8 | 5 | 1.2 |
| 1997 | 323 | 4.0 | 271 | 3.9 | 45 | 7.2 | 7 | 1.7 |

## Table D-2. (cont'd) Trends in Infant, Neonatal, and Post-Neonatal Mortality by Race[1], Massachusetts: 1980-1997

### POST-NEONATAL MORTALITY

| | State Total[2] | | White | | Black | | Asian/Other[3] | |
|---|---|---|---|---|---|---|---|---|
| Year | # | Rate[4] | # | Rate[4] | # | Rate[4] | # | Rate[4] |
| **1980** | 198 | 2.7 | 172 | 2.6 | 25 | 5.3 | 0 | 0.0 |
| **1981** | 200 | 2.7 | 174 | 2.6 | 26 | 5.8 | 3 | --[5] |
| **1982** | 191 | 2.5 | 162 | 2.3 | 27 | 5.6 | 2 | --[5] |
| **1983** | 200 | 2.7 | 168 | 2.4 | 26 | 5.6 | 5 | 3.1 |
| **1984** | 227 | 2.9 | 190 | 2.6 | 33 | 6.6 | 5 | 2.9 |
| **1985** | 207 | 2.5 | 161 | 2.1 | 41 | 7.8 | 6 | 3.3 |
| **1986** | 217 | 2.6 | 177 | 2.3 | 34 | 6.1 | 6 | 2.5 |
| **1987** | 176 | 2.1 | 143 | 1.8 | 30 | 4.8 | 3 | --[5] |
| **1988** | 216 | 2.5 | 163 | 2.1 | 46 | 6.7 | 7 | 2.0 |
| **1989** | 218 | 2.4 | 173 | 2.1 | 36 | 4.9 | 9 | 2.5 |
| **1990** | 203 | 2.2 | 172 | 2.1 | 26 | 3.4 | 5 | 1.4 |
| **1991** | 176 | 2.0 | 142 | 1.8 | 30 | 4.1 | 4 | --[5] |
| **1992** | 154 | 1.8 | 113 | 1.5 | 35 | 4.8 | 6 | 1.7 |
| **1993** | 148 | 1.7 | 123 | 1.7 | 21 | 3.0 | 4 | --[5] |
| **1994** | 150 | 1.8 | 127 | 1.7 | 21 | 3.1 | 2 | --[5] |
| **1995** | 121 | 1.5 | 96 | 1.3 | 15 | 2.4 | 10 | 2.6 |
| **1996** | 113 | 1.4 | 80 | 1.1 | 30 | 5.0 | 3 | --[5] |
| **1997** | 102 | 1.3 | 78 | 1.1 | 21 | 3.4 | 3 | --[5] |

[1] Hispanic origin could not be identified from the Massachusetts death certificate before 1989; thus, Hispanic trend data are not available. Most Hispanics are included in the race category of white. Hispanic infant mortality data for the years 1989 through 1997 are presented in Table D-1.

[2] Deaths of infants of unknown race are included in the total calculation. For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

[3] Other: American Indian and Other races.

[4] Rates are expressed per 1,000 live births.

[5] Calculations based on fewer than five events are excluded.

## Table D-3. Infant, Neonatal, and Post Neonatal Deaths by Cause[1], Massachusetts: 1997

| Cause of Death | ICD-9 Code | Infant (<1 year) # | Infant (<1 year) %[2,3] | Neonatal (<28 days) # | Neonatal (<28 days) % | Post Neonatal (28-364 days) # | Post Neonatal (28-364 days) % |
|---|---|---|---|---|---|---|---|
| TOTAL | | 425 | 100% | 323 | 100% | 102 | 100% |
| **Infectious and parasitic diseases** | 001-139 | 6 | 1.4 | 2 | -- | 4 | -- |
| **Cancer** | 140-208 | 2 | -- | 0 | 0 | 2 | -- |
| **Diseases of the blood and blood forming organs** | 280-289 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| **Other diseases of nervous system and sense organs** | 323-389 | 10 | 2.4 | 1 | -- | 9 | 8.8 |
| **Diseases of the respiratory system** | 460-519 | 9 | 2.1 | 3 | -- | 6 | 5.9 |
| **Diseases of digestive system** | 520-579 | 4 | -- | 1 | -- | 3 | -- |
| **Congenital anomalies** | 740-759 | 86 | 20.3 | 64 | 19.8 | 22 | 21.6 |
| Anencephalus and similar anomalies | 740 | 2 | -- | 3 | -- | 0 | -- |
| Congenital anomalies of central nervous system and eye | 742-743 | 7 | -- | 4 | -- | 3 | -- |
| Congenital anomalies of heart | 745-746 | 26 | -- | 15 | -- | 11 | -- |
| Other congenital anomalies of circulatory system | 747 | 7 | -- | 7 | -- | 0 | -- |
| Congenital anomalies of respiratory system | 748 | 14 | -- | 14 | -- | 0 | -- |
| Cleft palate and other digestive tract anomalies | 749-751 | 2 | -- | 1 | -- | 1 | -- |
| Congenital anomalies of genitourinary system | 752-753 | 1 | -- | 1 | -- | 0 | -- |
| Congenital anomalies of musculoskeletal system | 754-756 | 8 | -- | 6 | -- | 2 | -- |
| Chromosomal anomalies | 758 | 13 | -- | 10 | -- | 3 | -- |
| **Certain conditions originating in the perinatal period** | 760-779 | 234 | 55.1 | 228 | 70.6 | 6 | 5.9 |
| Newborn affected by maternal conditions which may be unrelated to present pregnancy | 760 | 9 | -- | 9 | -- | 0 | -- |
| Newborn effected by maternal complications of pregnancy | 761 | 34 | -- | 34 | -- | 0 | -- |
| Newborn affected by complications of placenta, cord and membrane | 762 | 24 | -- | 24 | -- | 0 | -- |
| Newborn effected by other complications of labor and delivery | 763 | 1 | -- | 1 | -- | 0 | -- |
| Slow fetal growth and fetal malnutrition | 764 | 1 | -- | 1 | -- | 0 | -- |
| Disorders relating to short gestation and unspecified low birthweight | 765 | 69 | -- | 68 | -- | 1 | -- |
| Birth trauma | 767 | 7 | -- | 7 | -- | 0 | -- |
| Intrauterine hypoxia and birth asphyxia | 768 | 5 | -- | 5 | -- | 0 | -- |
| Respiratory distress syndrome | 769 | 23 | -- | 22 | -- | 1 | -- |
| Other respiratory conditions of newborn | 770 | 37 | -- | 35 | -- | 2 | -- |
| Infections specific to the perinatal period | 771 | 7 | -- | 6 | -- | 1 | -- |
| Neonatal hemorrhage | 772 | 3 | -- | 3 | -- | 0 | -- |
| Other and ill-defined conditions originating in the perinatal period | 775-779 | 14 | -- | 13 | -- | 1 | -- |
| **Symptoms, signs, and ill-defined conditions** | 780-799 | 40 | 9.4 | 7 | 2.2 | 33 | 32.4 |
| Sudden Infant Death Syndrome (SIDS) | 798.0 | 30 | -- | 3 | -- | 27 | -- |
| **Accidents and adverse effects** | E800-E949 | 3 | -- | 0 | 0.0 | 3 | -- |
| **Homicide** | E960-E969 | 3 | -- | 0 | 0.0 | 3 | -- |
| All other causes | Residual | 28 | 6.6 | 17 | 5.3 | 11 | 10.8 |

[1] The ICD-9 cause categories presented in this table were updated starting with *Advanced Data Births: 1994*.
[2] Percents are not calculated for subcategories.
[3] Calculations based on fewer than five events are excluded.

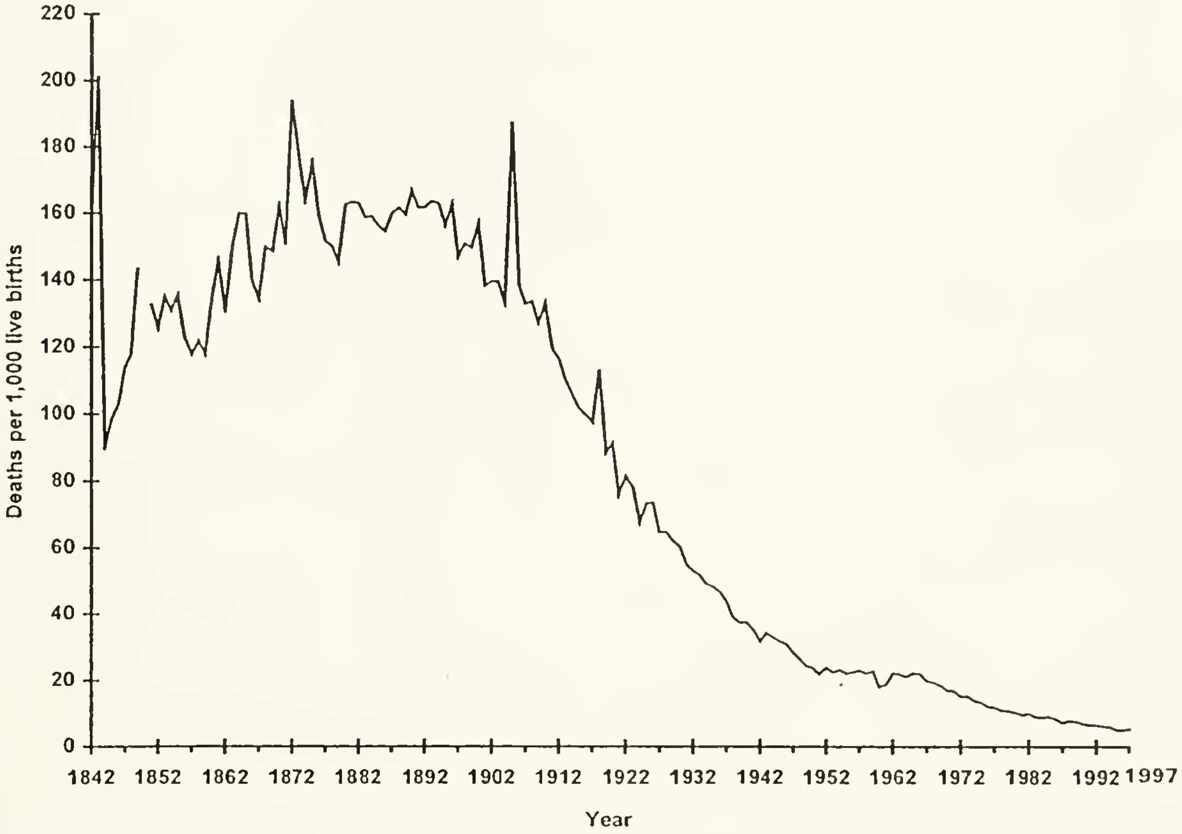
## Table D-4. Infant Deaths by Major Causes, Race and Hispanic Ethnicity, Massachusetts: 1997

| | | White | | Black | | Hispanic[1] | |
|---|---|---|---|---|---|---|---|
| Cause of Death | ICD-9 Code | # | % | # | % | # | % |
| TOTAL | | 349 | 100 | 66 | 100 | 55 | 100 |
| Congenital anomalies | 740-759 | 73 | 20.9 | 11 | 16.7 | 10 | 18.2 |
| Certain conditions originating in the perinatal period | 760-779 | 199 | 57.0 | 30 | 45.5 | 35 | 63.6 |
| Symptoms, signs, and ill-defined conditions | 780-799 | 28 | 8.0 | 10 | 15.2 | 5 | 9.1 |
| Accidents and adverse effects | E800-E949 | 2 | --[2] | 0 | 0.0 | 1 | --[2] |
| Homicide | E960-E969 | 3 | --[2] | 0 | 0.0 | 0 | 0.0 |
| All other causes | Residual | 44 | 12.6 | 15 | 22.7 | 4 | --[2] |

[1] Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

[2] Calculations based on fewer than five events are excluded.

Figure D-3. Infant Mortality Rates, Massachusetts: 1842-1997[1]



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[1] Data not available for 1850.

# MARRIAGES & DIVORCES

## SECTION E

## MARRIAGES AND DIVORCES

Marriages and divorces are reported by place of occurrence in Massachusetts. For example, if two Boston residents are married in Barnstable, this marriage will be reported by place of occurrence (Barnstable) rather than the residence of the couple (Boston). Marriages have traditionally been reported in this manner because of the number of couples who live in different communities. Additionally, out-of-state residents who marry in Massachusetts are included in these data.

Marriages and divorces, which involve Massachusetts residents, but occur in other states, are not included in these figures. No system of interstate exchange exists for these events. Unlike some states, Massachusetts marriage and divorce laws do not encourage out-of-state residents to come to the state nor do they discourage residents from using the Massachusetts system by imposing long waiting periods, etc.

In 1997, 41,528 marriages occurred in Massachusetts compared to 41,234 in 1996, an increase of 0.7%. The rate of marriages remained at 6.7 per 1,000 population in 1997, the same rate as in 1996. The 1997 US rate of marriages per 1,000 population was 8.9, slightly higher than the 1996 US rate of 8.8. Of all brides in Massachusetts in 1997, 74.3% had never previously been married. This percentage was slightly less among the grooms--74.0%.

In 1997, 15,942 divorces were granted in Massachusetts, an increase of 2.9% from the 15,485 divorces granted in 1996. The 1997 rate of divorce per 1,000 population in Massachusetts was 2.6, slightly higher than the 1996 divorce rate of 2.5. This rate was well below the 1997 US rate of 4.3 divorces per 1,000 population.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

MARRIAGE RATE $$\frac{\text{Number of Occurrence Marriages}}{\text{Total Population}} \times 1{,}000$$

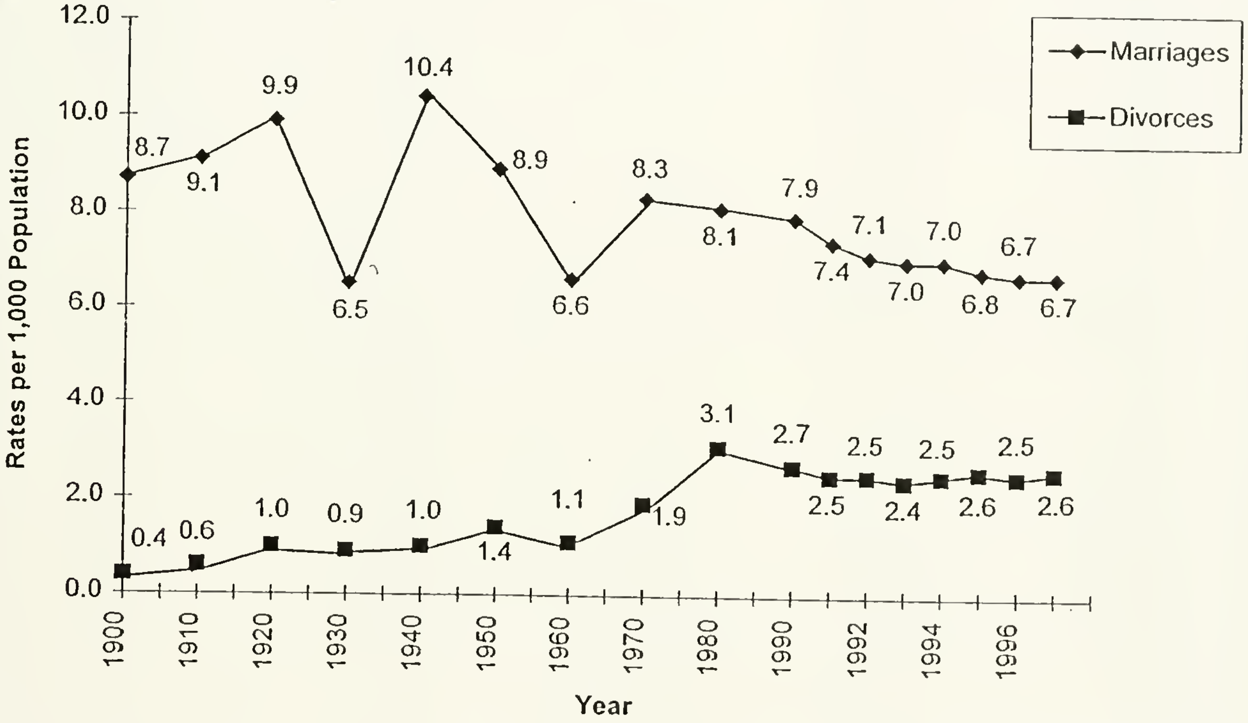
DIVORCE RATE $$\frac{\text{Number of Occurrence Divorces}}{\text{Total Population}} \times 1{,}000$$

## Table E-1. Marriages and Divorces by County

### Massachusetts Occurrence: 1997

| | Marriages | Divorces |
|---|---:|---:|
| State Total | 41,528 | 15,942 |
| Counties | | |
| Barnstable | 2,254 | 648 |
| Berkshire | 950 | 381 |
| Bristol | 3,151 | 1,569 |
| Dukes | 409 | 54 |
| Essex | 4,887 | 2,129 |
| Franklin | 383 | 294 |
| Hampden | 2,844 | 1,219 |
| Hampshire | 854 | 346 |
| Middlesex | 8,939 | 2,882 |
| Nantucket | 300 | 45 |
| Norfolk | 3,867 | 1,467 |
| Plymouth | 2,876 | 1,470 |
| Suffolk | 5,218 | 1,320 |
| Worcester | 4,596 | 2,118 |

Figure E-1. Rates of Marriages and Divorces per 1,000 Population, Massachusetts: 1900-1997



## Table E-2. Marriages and Divorces and Rates Per 1,000 Population

## Massachusetts Occurrence: 1900-1997

| Year | Marriages Number | Marriages Rate | Divorces Number | Divorces Rate |
|---|---|---|---|---|
| 1900 | 24,342 | 8.7 | 1,258 | 0.4 |
| 1905 | 27,184 | 9.1 | 1,554 | 0.5 |
| 1910 | 30,710 | 9.1 | 1,929 | 0.6 |
| 1915 | 31,301 | 8.5 | 2,252 | 0.6 |
| 1920 | 38,048 | 9.9 | 3,647 | 1.0 |
| 1925 | 31,238 | 7.5 | 3,395 | 0.8 |
| 1930 | 27,431 | 6.5 | 3,746 | 0.9 |
| 1935 | 30,019 | 6.9 | 4,081 | 0.9 |
| 1940 | 44,836 | 10.4 | 4,502 | 1.0 |
| 1945 | 38,197 | 8.5 | 6,833 | 1.5 |
| 1950 | 41,711 | 8.9 | 6,365 | 1.4 |
| 1955 | 35,585 | 7.3 | 5,601 | 1.2 |
| 1960 | 34,050 | 6.6 | 5,592 | 1.1 |
| 1965 | 38,281 | 7.2 | 7,728 | 1.5 |
| 1970 | 47,292 | 8.3 | 10,818 | 1.9 |
| 1975 | 42,103 | 7.3 | 16,460 | 2.8 |
| 1980 | 46,273 | 8.1 | 17,873 | 3.1 |
| 1985 | 49,849 | 8.6 | 21,573 | 3.7 |
| 1986 | 49,990 | 8.6 | 19,809 | 3.4 |
| 1987 | 49,034 | 8.4 | 16,994 | 2.9 |
| 1988 | 49,941 | 8.5 | 17,676 | 3.0 |
| 1989 | 49,174 | 8.4 | 16,819 | 2.9 |
| 1990 | 47,786 | 7.9 | 16,258 | 2.7 |
| 1991 | 44,621 | 7.4 | 14,987 | 2.5 |
| 1992 | 43,228 | 7.1 | 15,411 | 2.5 |
| 1993 | 42,355 | 7.0 | 14,435 | 2.4 |
| 1994 | 42,503 | 7.0 | 15,450 | 2.5 |
| 1995 | 41,522 | 6.8 | 15,772 | 2.6 |
| 1996 | 41,234 | 6.7 | 15,485 | 2.5 |
| 1997 | 41,528 | 6.7 | 15,942 | 2.6 |

## Table E-3. Marriages by Age and Marital Status

## Massachusetts Occurrence: 1997

Bride

| | Total | | Single | | Widowed | | Divorced | |
|---|---|---|---|---|---|---|---|---|
| Age | Number | % | Number | % | Number | % | Number | % |
| Total | 41,528 | 100.0 | 30,850 | 74.3 | 864 | 2.1 | 9,814 | 23.6 |
| <20 | 1,309 | 100.0 | 1,304 | 99.6 | 0 | 0.0 | 5 | 0.4 |
| 20-29 | 21,695 | 100.0 | 20,277 | 93.5 | 28 | 0.1 | 1,390 | 6.4 |
| 30-39 | 12,696 | 100.0 | 7,995 | 63.0 | 146 | 1.1 | 4,555 | 35.9 |
| 40-49 | 4,052 | 100.0 | 1,098 | 27.1 | 221 | 5.5 | 2,733 | 67.4 |
| 50-59 | 1,307 | 100.0 | 151 | 11.6 | 204 | 15.6 | 952 | 72.8 |
| 60-69 | 336 | 100.0 | 19 | 5.7 | 157 | 46.7 | 160 | 47.6 |
| 70+ | 133 | 100.0 | 6 | 4.5 | 108 | 81.2 | 19 | 14.3 |

Groom

| | Total | | Single | | Widowed | | Divorced | |
|---|---|---|---|---|---|---|---|---|
| Age | Number | % | Number | % | Number | % | Number | % |
| Total | 41,528 | 100.0 | 30,741 | 74.0 | 831 | 2.0 | 9,956 | 24.0 |
| <20 | 424 | 100.0 | 424 | 100.0 | 0 | 0.0 | 0 | 0.0 |
| 20-29 | 18,319 | 100.0 | 17,582 | 96.0 | 8 | 0.0 | 729 | 4.0 |
| 30-39 | 14,884 | 100.0 | 10,860 | 73.0 | 63 | 0.4 | 3,961 | 26.6 |
| 40-49 | 5,022 | 100.0 | 1,618 | 32.2 | 133 | 2.7 | 3,271 | 65.1 |
| 50-59 | 1,921 | 100.0 | 205 | 10.7 | 193 | 10.0 | 1,523 | 79.3 |
| 60-69 | 636 | 100.0 | 37 | 5.8 | 205 | 32.2 | 394 | 62.0 |
| 70+ | 322 | 100.0 | 15 | 4.7 | 229 | 71.1 | 78 | 24.2 |

## Table E-4. Number of Marriages by Age of Bride and Age of Groom

### Massachusetts Occurrence: 1997

| Age of Bride | Total | Age of Groom<br><20 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | ≥70 |
|---|---|---|---|---|---|---|---|---|
| **Total** | 41,528 | 424 | 18,319 | 14,884 | 5,022 | 1,921 | 636 | 322 |
| **<20** | 1,309 | 285 | 896 | 115 | 11 | 2 | 0 | 0 |
| **20-29** | 21,695 | 129 | 15,051 | 6,003 | 463 | 46 | 3 | 0 |
| **30-39** | 12,696 | 10 | 2,215 | 7,717 | 2,367 | 352 | 30 | 5 |
| **40-49** | 4,052 | 0 | 144 | 984 | 1,905 | 846 | 151 | 22 |
| **50-59** | 1,307 | 0 | 13 | 62 | 260 | 639 | 268 | 65 |
| **60-69** | 336 | 0 | 0 | 3 | 15 | 35 | 161 | 122 |
| **70+** | 133 | 0 | 0 | 0 | 1 | 1 | 23 | 108 |

## Table E-5. Number of Marriages for Bride by Number of Marriages for Groom

### Massachusetts Occurrence: 1997

| | | Number of Marriages | | | | |
|---|---|---|---|---|---|---|
| | | Groom | | | | |
| Bride | Total | 1 | 2 | 3 | 4 | 5+ |
| Total | 41,528 | 30,743 | 9,071 | 1,515 | 177 | 22 |
| 1 | 30,853 | 26,232 | 4,159 | 425 | 35 | 2 |
| 2 | 8,961 | 4,035 | 4,043 | 771 | 96 | 16 |
| 3 | 1,512 | 437 | 766 | 274 | 33 | 2 |
| 4 | 170 | 28 | 89 | 39 | 12 | 2 |
| 5+ | 32 | 11 | 14 | 6 | 1 | 0 |

# POPULATION

# SECTION F

# POPULATION

The population data in this section are presented for use in computing rates for small areas and for reporting changes over time by municipality and county. They are based primarily on the US Federal Census for 1990.

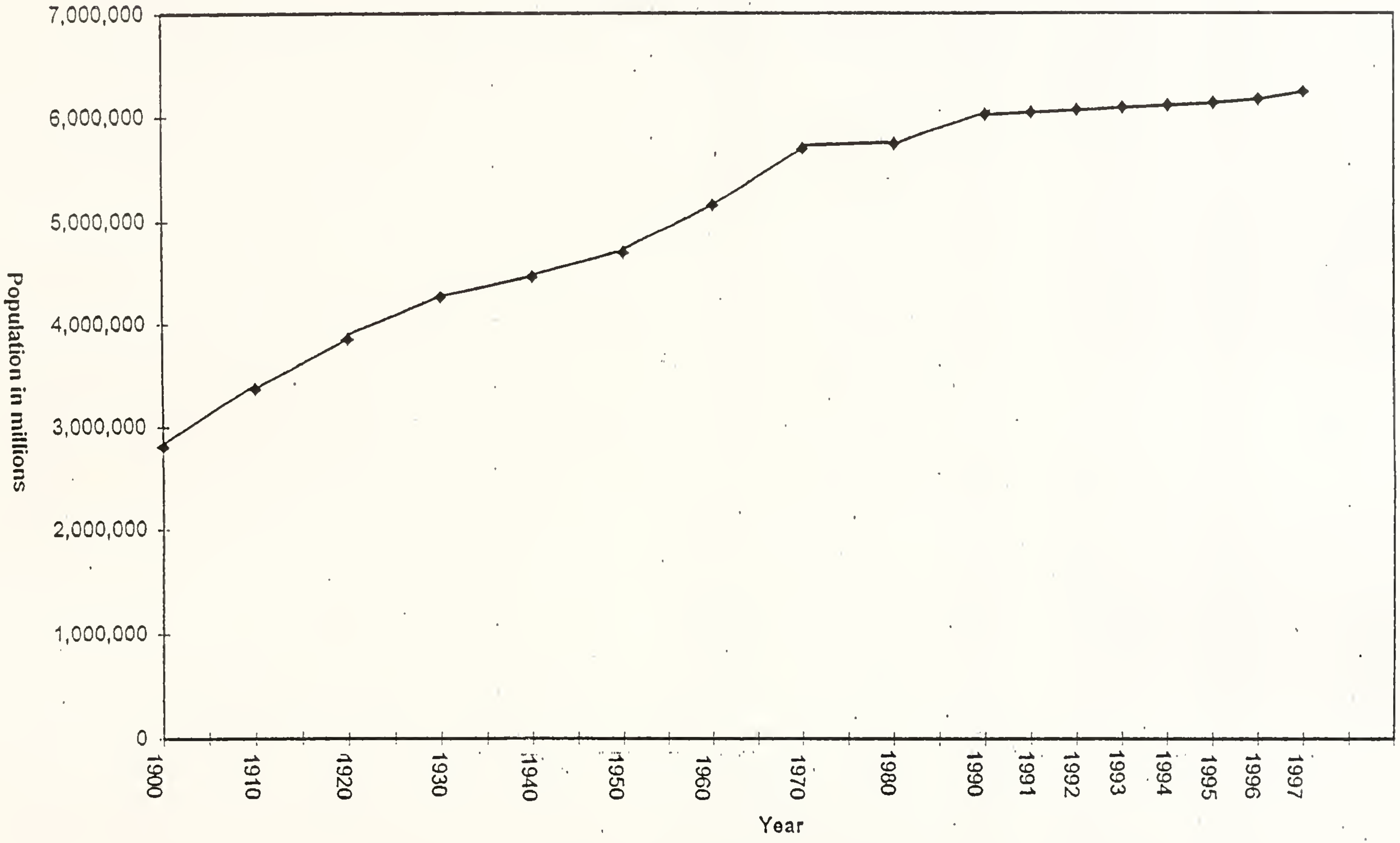
Prior to 1985, the Massachusetts State Census method of enumeration differed from the federal census. Generally, the state figures excluded non-resident students and military families residing in the Commonwealth; they are included in the US Census definition of resident.

The Massachusetts population estimates for the years 1985-1989 (Table F-4) are calculated as linear interpolations from 1980 and 1990 US Federal Census data. The 1997 population estimate is an extrapolation of the 1990 US Federal Census and MISER estimates for 1995.

All additional interpolations and calculations have been provided by Bruce B. Cohen and Alison Donta, Division of Research and Epidemiology, Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health.

In 1997, there were an estimated 6,187,181 residents of Massachusetts. This represents a 4.3% increase in population since 1987, when the population numbered 5,932,611. Among the total 1997 population in Massachusetts, 48.3% were male, 25.0% were below the age of 20, and 6.6% were over 75 years of age.

Figure F-1. Massachusetts Population: 1900-1997



## Table F-1. Population by Race, Age and Sex, Massachusetts: 1990[1]

| Age | Sex | Total | White | Black | Other[2] |
|---|---|---|---|---|---|
| Under 1 | Male | 46,018 | 40,463 | 3,925 | 1,630 |
| | Female | 44,125 | 38,546 | 3,926 | 1,653 |
| | Total | 90,143 | 79,009 | 7,851 | 3,283 |
| 1-4 | Male | 169,427 | 149,849 | 13,663 | 5,915 |
| | Female | 161,779 | 142,349 | 13,489 | 5,941 |
| | Total | 331,206 | 292,198 | 27,152 | 11,856 |
| 5-9 | Male | 193,482 | 172,170 | 14,393 | 6,919 |
| | Female | 183,137 | 162,336 | 14,104 | 6,697 |
| | Total | 376,619 | 334,506 | 28,497 | 13,616 |
| 10-14 | Male | 177,899 | 159,257 | 13,226 | 5,416 |
| | Female | 169,117 | 150,743 | 12,916 | 5,458 |
| | Total | 347,016 | 310,000 | 26,142 | 10,874 |
| 15-19 | Male | 209,289 | 187,227 | 14,627 | 7,435 |
| | Female | 206,741 | 184,529 | 14,595 | 7,617 |
| | Total | 416,030 | 371,756 | 29,222 | 15,052 |
| 20-24 | Male | 256,657 | 231,290 | 16,344 | 9,023 |
| | Female | 260,537 | 234,182 | 17,002 | 9,353 |
| | Total | 517,194 | 465,472 | 33,346 | 18,376 |
| 25-29 | Male | 277,295 | 251,142 | 16,785 | 9,368 |
| | Female | 279,025 | 252,738 | 17,311 | 8,976 |
| | Total | 556,320 | 503,880 | 34,096 | 18,344 |
| 30-34 | Male | 268,701 | 244,766 | 15,346 | 8,589 |
| | Female | 273,629 | 249,299 | 15,867 | 8,463 |
| | Total | 542,330 | 494,065 | 31,213 | 17,052 |
| 35-39 | Male | 237,202 | 217,981 | 12,403 | 6,818 |
| | Female | 243,972 | 223,847 | 13,153 | 6,972 |
| | Total | 481,174 | 441,828 | 25,556 | 13,790 |
| 40-44 | Male | 211,399 | 196,542 | 9,811 | 5,046 |
| | Female | 221,975 | 206,029 | 10,619 | 5,327 |
| | Total | 433,374 | 402,571 | 20,430 | 10,373 |
| 45-49 | Male | 162,636 | 152,146 | 7,024 | 3,466 |
| | Female | 170,698 | 159,100 | 8,211 | 3,387 |
| | Total | 333,334 | 311,246 | 15,235 | 6,853 |

[1] Figures are from the 1990 U.S. Census. [2] Other races include Asian, American Indian, Hawaiian, and others not specified.

## Table F-1. (continued) Population by Race, Age and Sex, Massachusetts: 1990

| Age | Sex | Total | White | Black | Other |
|---|---|---:|---:|---:|---:|
| 50-54 | Male | 126,581 | 118,555 | 5,246 | 2,780 |
| | Female | 136,020 | 127,187 | 6,274 | 2,559 |
| | Total | 262,601 | 245,742 | 11,520 | 5,339 |
| 55-59 | Male | 120,175 | 113,887 | 4,238 | 2,050 |
| | Female | 131,999 | 124,575 | 5,263 | 2,161 |
| | Total | 252,174 | 238,462 | 9,501 | 4,211 |
| 60-64 | Male | 121,609 | 116,299 | 3,762 | 1,548 |
| | Female | 140,296 | 133,558 | 4,844 | 1,894 |
| | Total | 261,905 | 249,857 | 8,606 | 3,442 |
| 65-69 | Male | 110,424 | 106,135 | 3,064 | 1,225 |
| | Female | 140,959 | 135,442 | 4,083 | 1,434 |
| | Total | 251,383 | 241,577 | 7,147 | 2,659 |
| 70-74 | Male | 85,541 | 82,863 | 1,965 | 713 |
| | Female | 121,790 | 117,883 | 2,973 | 934 |
| | Total | 207,331 | 200,746 | 4,938 | 1,647 |
| 75-79 | Male | 59,037 | 57,350 | 1,199 | 488 |
| | Female | 100,616 | 97,776 | 2,156 | 684 |
| | Total | 159,653 | 155,126 | 3,355 | 1,172 |
| 80-84 | Male | 33,468 | 32,561 | 669 | 238 |
| | Female | 72,831 | 71,105 | 1,338 | 388 |
| | Total | 106,299 | 103,666 | 2,007 | 626 |
| ≥ 85 | Male | 21,905 | 21,324 | 439 | 142 |
| | Female | 68,434 | 66,965 | 1,187 | 282 |
| | Total | 90,339 | 88,289 | 1,626 | 424 |
| Total | Male | 2,888,745 | 2,651,807 | 158,129 | 78,809 |
| | Female | 3,127,680 | 2,878,189 | 169,311 | 80,180 |
| | Total | 6,016,425 | 5,529,996 | 327,440 | 158,989 |

Figure F-2. 1990 Massachusetts Population by Age Group

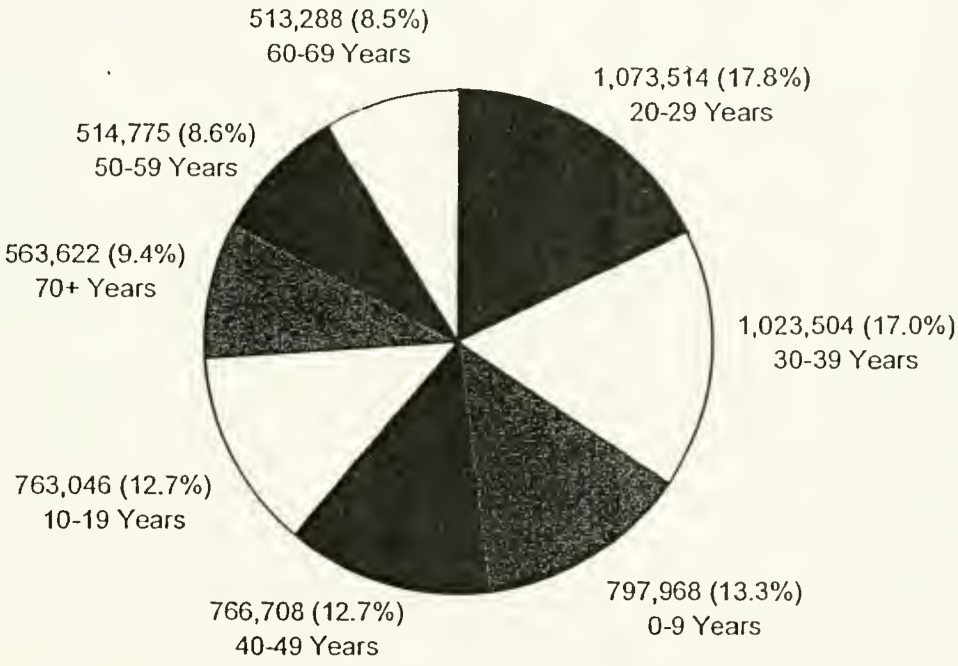
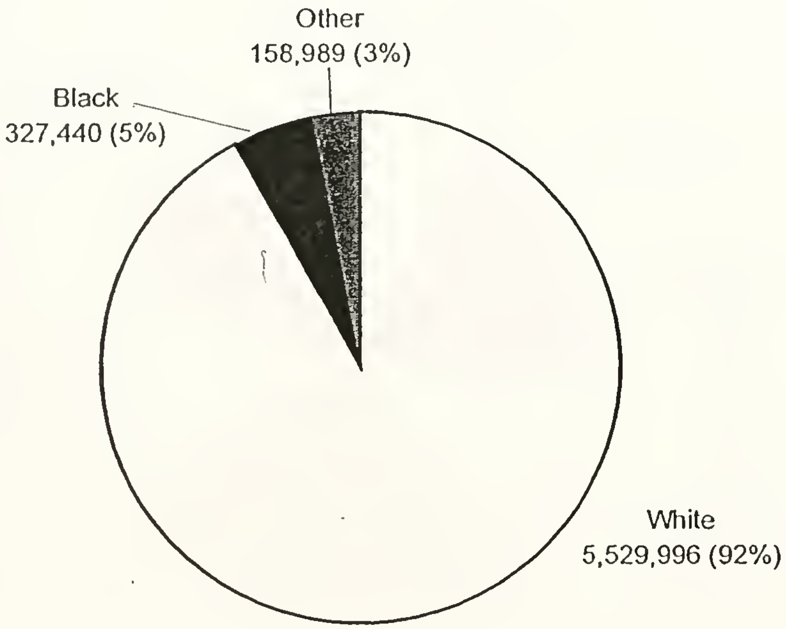


Figure F-3. 1990 Massachusetts Population by Race



[1] Other races include Asian, American Indian, Hawaiian, and others not specified.

## Table F-2. Massachusetts Population by County: 1960-1990

| | Federal 1960 | State 1965[1] | Federal 1970 | State 1975[2] | Federal 1980 | State 1985[3] | Federal 1990[4] |
|---|---|---|---|---|---|---|---|
| State | 5,148,578 | 5,418,878 | 5,689,170 | 5,713,107 | 5,737,037 | 5,876,734 | 6,016,425 |
| Counties | | | | | | | |
| Barnstable | 70,286 | 83,471 | 96,656 | 122,291 | 147,925 | 167,265 | 186,605 |
| Berkshire | 142,135 | 145,769 | 149,402 | 147,256 | 145,110 | 142,231 | 139,352 |
| Bristol | 398,488 | 421,395 | 444,301 | 459,471 | 474,641 | 490,483 | 506,325 |
| Dukes | 5,829 | 5,973 | 6,117 | 7,530 | 8,942 | 10,291 | 11,639 |
| Essex | 568,831 | 603,359 | 637,887 | 635,760 | 633,632 | 651,856 | 670,080 |
| Franklin | 54,864 | 57,037 | 59,210 | 61,764 | 64,317 | 67,205 | 70,092 |
| Hampden | 429,353 | 444,202 | 459,050 | 451,034 | 443,018 | 449,664 | 456,310 |
| Hampshire | 103,229 | 113,605 | 123,981 | 131,397 | 138,813 | 142,691 | 146,568 |
| Middlesex | 1,238,742 | 1,318,005 | 1,397,268 | 1,382,151 | 1,367,034 | 1,382,751 | 1,398,468 |
| Nantucket | 3,559 | 3,667 | 3,774 | 4,431 | 5,087 | 5,550 | 6,012 |
| Norfolk | 510,256 | 557,654 | 605,051 | 605,819 | 606,587 | 611,337 | 616,087 |
| Plymouth | 248,449 | 290,882 | 333,314 | 369,376 | 405,437 | 420,357 | 435,276 |
| Suffolk | 791,329 | 763,260 | 735,190 | 692,666 | 650,142 | 657,024 | 663,906 |
| Worcester | 583,228 | 610,599 | 637,969 | 642,161 | 646,352 | 678,029 | 709,705 |

[1] 1965 State Census figures are interpolations of the 1960 and 1970 U.S. Census counts. [2] 1975 State Census figures are interpolations of the 1970 and 1980 U.S. Census counts. [3] 1985 State Census figures are interpolations of the 1980 and 1990 U.S. Census counts. [4] Figures are from the 1990 U.S. Census.

## Table F-3. Massachusetts Population by City and Town: 1980 and 1990

| City/Town | 1980 US Census | 1990 US Census | City/Town | 1980 US Census | 1990 US Census |
|---|---|---|---|---|---|
| Abington | 13,517 | 13,817 | Dover | 4,703 | 4,915 |
| Acton | 17,544 | 17,872 | Dracut | 21,249 | 25,594 |
| Acushnet | 8,704 | 9,554 | Dudley | 8,717 | 9,540 |
| Adams | 10,381 | 9,445 | Dunstable | 1,671 | 2,236 |
| Agawam | 26,271 | 27,323 | Duxbury | 11,807 | 13,895 |
| Alford | 394 | 418 | East Bridgewater | 9,945 | 11,104 |
| Amesbury | 13,971 | 14,997 | East Brookfield | 1,955 | 2,033 |
| Amherst | 33,229 | 35,228 | East Longmeadow | 12,905 | 13,367 |
| Andover | 26,370 | 29,151 | Eastham | 3,472 | 4,462 |
| Arlington | 48,219 | 44,630 | Easthampton | 15,580 | 15,537 |
| Ashburnham | 4,075 | 5,433 | Easton | 16,623 | 19,807 |
| Ashby | 2,311 | 2,717 | Edgartown | 2,204 | 3,062 |
| Ashfield | 1,458 | 1,715 | Egremont | 1,311 | 1,229 |
| Ashland | 9,165 | 12,066 | Erving | 1,326 | 1,372 |
| Athol | 10,634 | 11,451 | Essex | 2,998 | 3,260 |
| Attleboro | 34,196 | 38,383 | Everett | 37,195 | 35,701 |
| Auburn | 14,845 | 15,005 | Fairhaven | 15,759 | 16,132 |
| Avon | 5,026 | 4,558 | Fall River | 92,574 | 92,703 |
| Ayer | 6,993 | 6,871 | Falmouth | 23,640 | 27,960 |
| Barnstable | 30,898 | 40,949 | Fitchburg | 39,580 | 41,194 |
| Barre | 4,102 | 4,546 | Florida | 730 | 742 |
| Becket | 1,339 | 1,481 | Foxborough | 14,148 | 14,637 |
| Bedford | 13,067 | 12,996 | Framingham | 65,113 | 64,989 |
| Belchertown | 8,339 | 10,579 | Franklin | 18,217 | 22,095 |
| Bellingham | 14,300 | 14,877 | Freetown | 7,058 | 8,522 |
| Belmont | 26,100 | 24,720 | Gardner | 17,900 | 20,125 |
| Berkley | 2,731 | 4,237 | Gay Head | 220 | 201 |
| Berlin | 2,215 | 2,293 | Georgetown | 5,687 | 6,384 |
| Bernardston | 1,750 | 2,048 | Gill | 1,259 | 1,583 |
| Beverly | 37,655 | 38,195 | Gloucester | 27,768 | 28,716 |
| Billerica | 36,727 | 37,609 | Goshen | 651 | 830 |
| Blackstone | 6,570 | 8,023 | Gosnold | 63 | 98 |
| Blandford | 1,038 | 1,187 | Grafton | 11,238 | 13,035 |
| Bolton | 2,530 | 3,134 | Granby | 5,380 | 5,565 |
| Boston | 562,994 | 574,283 | Granville | 1,204 | 1,403 |
| Bourne | 13,874 | 16,064 | Great Barrington | 7,405 | 7,725 |
| Boxborough | 3,126 | 3,343 | Greenfield | 18,436 | 18,666 |
| Boxford | 5,374 | 6,266 | Groton | 6,154 | 7,511 |
| Boylston | 3,470 | 3,517 | Groveland | 5,040 | 5,214 |
| Braintree | 36,337 | 33,836 | Hadley | 4,125 | 4,231 |
| Brewster | 5,226 | 8,440 | Halifax | 5,513 | 6,526 |
| Bridgewater | 17,202 | 21,249 | Hamilton | 6,960 | 7,280 |
| Brimfield | 2,318 | 3,001 | Hampden | 4,745 | 4,709 |
| Brockton | 95,172 | 92,788 | Hancock | 643 | 628 |
| Brookfield | 2,397 | 2,968 | Hanover | 11,358 | 11,912 |
| Brookline | 55,062 | 54,718 | Hanson | 8,617 | 9,028 |
| Buckland | 1,864 | 1,928 | Hardwick | 2,272 | 2,385 |
| Burlington | 23,486 | 23,302 | Harvard | 12,170 | 12,329 |
| Cambridge | 95,322 | 95,802 | Harwich | 8,971 | 10,275 |
| Canton | 18,182 | 18,530 | Hatfield | 3,045 | 3,184 |
| Carlisle | 3,306 | 4,333 | Haverhill | 46,865 | 51,418 |
| Carver | 6,988 | 10,590 | Hawley | 280 | 317 |
| Charlemont | 1,149 | 1,249 | Heath | 482 | 716 |
| Charlton | 6,719 | 9,576 | Hingham | 20,339 | 19,821 |
| Chatham | 6,071 | 6,579 | Hinsdale | 1,707 | 1,959 |
| Chelmsford | 31,174 | 32,383 | Holbrook | 11,140 | 11,041 |
| Chelsea | 25,431 | 28,710 | Holden | 13,336 | 14,628 |
| Cheshire | 3,124 | 3,479 | Holland | 1,589 | 2,185 |
| Chester | 1,123 | 1,280 | Holliston | 12,622 | 12,926 |
| Chesterfield | 1,000 | 1,048 | Holyoke | 44,678 | 43,704 |
| Chicopee | 55,112 | 56,632 | Hopedale | 3,905 | 5,666 |
| Chilmark | 489 | 650 | Hopkinton | 7,114 | 9,191 |
| Clarksburg | 1,871 | 1,745 | Hubbardston | 1,797 | 2,797 |
| Clinton | 12,771 | 13,222 | Hudson | 16,408 | 17,233 |
| Cohasset | 7,174 | 7,075 | Hull | 9,714 | 10,466 |
| Colrain | 1,552 | 1,757 | Huntington | 1,804 | 1,987 |
| Concord | 16,293 | 17,076 | Ipswich | 11,158 | 11,873 |
| Conway | 1,213 | 1,529 | Kingston | 7,362 | 9,045 |
| Cummington | 657 | 785 | Lakeville | 5,931 | 7,785 |
| Dalton | 6,797 | 7,155 | Lancaster | 6,334 | 6,661 |
| Danvers | 24,100 | 24,174 | Lanesborough | 3,131 | 3,032 |
| Dartmouth | 23,966 | 27,244 | Lawrence | 63,175 | 70,207 |
| Dedham | 25,298 | 23,782 | Lee | 6,247 | 5,849 |
| Deerfield | 4,517 | 5,018 | Leicester | 9,446 | 10,191 |
| Dennis | 12,360 | 13,864 | Lenox | 6,523 | 5,069 |
| Dighton | 5,352 | 5,631 | Leominster | 34,508 | 38,145 |
| Douglas | 3,730 | 5,438 | Leverett | 1,471 | 1,785 |

## Table F-3. Massachusetts Population by City and Town: 1980 and 1990

| City/Town | 1980 US Census | 1990 US Census | City/Town | 1980 US Census | 1990 US Census |
|---|---|---|---|---|---|
| Lexington | 29,479 | 28,974 | Pepperell | 8,061 | 10,098 |
| Leyden | 498 | 662 | Peru | 633 | 779 |
| Lincoln | 7,098 | 7,666 | Petersham | 1,024 | 1,131 |
| Littleton | 6,970 | 7,051 | Phillipston | 953 | 1,485 |
| Longmeadow | 16,301 | 15,467 | Pittsfield | 51,974 | 48,622 |
| Lowell | 92,418 | 103,439 | Plainfield | 425 | 571 |
| Ludlow | 18,150 | 18,820 | Plainville | 5,857 | 6,871 |
| Lunenburg | 8,405 | 9,117 | Plymouth | 35,913 | 45,608 |
| Lynn | 78,471 | 81,245 | Plympton | 1,974 | 2,384 |
| Lynnfield | 11,267 | 11,274 | Princeton | 2,425 | 3,189 |
| Malden | 53,386 | 53,884 | Provincetown | 3,536 | 3,561 |
| Manchester | 5,424 | 5,286 | Quincy | 84,743 | 84,985 |
| Mansfield | 13,453 | 16,568 | Randolph | 28,218 | 30,093 |
| Marblehead | 20,126 | 19,971 | Raynham | 9,085 | 9,867 |
| Marion | 3,932 | 4,496 | Reading | 22,678 | 22,539 |
| Marlborough | 30,617 | 31,813 | Rehoboth | 7,570 | 8,656 |
| Marshfield | 20,916 | 21,531 | Revere | 42,423 | 42,786 |
| Mashpee | 3,700 | 7,884 | Richmond | 1,659 | 1,677 |
| Mattapoisett | 5,597 | 5,850 | Rochester | 3,205 | 3,921 |
| Maynard | 9,590 | 10,325 | Rockland | 15,695 | 16,123 |
| Medfield | 10,220 | 10,531 | Rockport | 6,345 | 7,482 |
| Medford | 58,076 | 57,407 | Rowe | 336 | 378 |
| Medway | 8,447 | 9,931 | Rowley | 3,867 | 4,452 |
| Melrose | 30,055 | 28,150 | Royalston | 955 | 1,147 |
| Mendon | 3,108 | 4,010 | Russell | 1,570 | 1,594 |
| Merrimac | 4,451 | 5,166 | Rutland | 4,334 | 4,936 |
| Methuen | 36,701 | 39,990 | Salem | 38,220 | 38,091 |
| Middleborough | 16,404 | 17,867 | Salisbury | 5,973 | 6,882 |
| Middlefield | 385 | 392 | Sandisfield | 720 | 667 |
| Middleton | 4,135 | 4,921 | Sandwich | 8,727 | 15,489 |
| Milford | 23,390 | 25,355 | Saugus | 24,746 | 25,549 |
| Millbury | 11,808 | 12,228 | Savoy | 644 | 634 |
| Millis | 6,908 | 7,613 | Scituate | 17,317 | 16,786 |
| Millville | 1,693 | 2,236 | Seekonk | 12,269 | 13,046 |
| Milton | 25,860 | 25,725 | Sharon | 13,601 | 15,517 |
| Monroe | 179 | 115 | Sheffield | 2,743 | 2,910 |
| Monson | 7,315 | 7,776 | Shelburne | 2,002 | 2,012 |
| Montague | 8,011 | 8,316 | Sherborn | 4,049 | 3,989 |
| Monterey | 818 | 805 | Shirley | 5,124 | 6,118 |
| Montgomery | 637 | 759 | Shrewsbury | 22,674 | 24,146 |
| Mount Washington | 93 | 135 | Shutesbury | 1,049 | 1,561 |
| Nahant | 3,947 | 3,828 | Somerset | 18,813 | 17,655 |
| Nantucket | 5,087 | 6,012 | Somerville | 77,372 | 76,210 |
| Natick | 29,461 | 30,510 | South Hadley | 16,399 | 16,685 |
| Needham | 27,901 | 27,557 | Southampton | 4,137 | 4,478 |
| New Ashford | 159 | 192 | Southborough | 6,193 | 6,628 |
| New Bedford | 98,478 | 99,922 | Southbridge | 16,665 | 17,816 |
| New Braintree | 671 | 881 | Southwick | 7,382 | 7,667 |
| New Marlborough | 1,160 | 1,240 | Spencer | 10,774 | 11,645 |
| New Salem | 688 | 802 | Springfield | 152,319 | 156,983 |
| Newbury | 4,529 | 5,623 | Sterling | 5,440 | 6,481 |
| Newburyport | 15,900 | 16,317 | Stockbridge | 2,328 | 2,408 |
| Newton | 83,622 | 82,585 | Stoneham | 21,424 | 22,203 |
| Norfolk | 6,363 | 9,270 | Stoughton | 26,710 | 26,777 |
| North Adams | 18,063 | 16,797 | Stow | 5,144 | 5,328 |
| North Andover | 20,129 | 22,792 | Sturbridge | 5,976 | 7,775 |
| North Attleboro | 21,095 | 25,038 | Sudbury | 14,027 | 14,358 |
| North Brookfield | 4,150 | 4,708 | Sunderland | 2,929 | 3,399 |
| North Reading | 11,455 | 12,002 | Sutton | 5,855 | 6,824 |
| Northampton | 29,286 | 29,289 | Swampscott | 13,837 | 13,650 |
| Northborough | 10,568 | 11,929 | Swansea | 15,461 | 15,411 |
| Northbridge | 12,246 | 13,371 | Taunton | 45,001 | 49,832 |
| Northfield | 2,386 | 2,838 | Templeton | 6,070 | 6,438 |
| Norton | 12,690 | 14,265 | Tewksbury | 24,635 | 27,266 |
| Norwell | 9,182 | 9,279 | Tisbury | 2,972 | 3,120 |
| Norwood | 29,711 | 28,700 | Tolland | 235 | 289 |
| Oak Bluffs | 1,984 | 2,804 | Topsfield | 5,709 | 5,754 |
| Oakham | 994 | 1,503 | Townsend | 7,201 | 8,496 |
| Orange | 6,844 | 7,312 | Truro | 1,486 | 1,573 |
| Orleans | 5,306 | 5,838 | Tyngsborough | 5,683 | 8,642 |
| Otis | 963 | 1,073 | Tyringham | 344 | 369 |
| Oxford | 11,680 | 12,588 | Upton | 3,886 | 4,677 |
| Palmer | 11,389 | 12,054 | Uxbridge | 8,374 | 10,415 |
| Paxton | 3,762 | 4,047 | Wakefield | 24,895 | 24,825 |
| Peabody | 45,976 | 47,039 | Wales | 1,177 | 1,566 |
| Pelham | 1,112 | 1,373 | Walpole | 18,859 | 20,212 |
| Pembroke | 13,487 | 14,544 | Waltham | 58,200 | 57,878 |

## Table F-3. Massachusetts Population by City and Town: 1980 and 1990

| City/Town | 1980 US Census | 1990 US Census |
|---|---|---|
| Ware | 8,953 | 9,808 |
| Wareham | 18,457 | 19,232 |
| Warren | 3,777 | 4,437 |
| Warwick | 603 | 740 |
| Washington | 587 | 615 |
| Watertown | 34,384 | 33,284 |
| Wayland | 12,170 | 11,874 |
| Webster | 14,480 | 16,196 |
| Wellesley | 27,209 | 26,615 |
| Wellfleet | 2,209 | 2,493 |
| Wendell | 694 | 899 |
| Wenham | 3,897 | 4,212 |
| West Boylston | 6,204 | 6,611 |
| West Bridgewater | 6,359 | 6,389 |
| West Brookfield | 3,026 | 3,532 |
| West Newbury | 2,861 | 3,421 |
| West Springfield | 27,042 | 27,537 |
| West Stockbridge | 1,280 | 1,483 |
| West Tisbury | 1,010 | 1,704 |
| Westborough | 13,619 | 14,133 |
| Westfield | 36,465 | 38,372 |
| Westford | 13,434 | 16,392 |
| Westhampton | 1,137 | 1,327 |
| Westminster | 5,139 | 6,191 |
| Weston | 11,169 | 10,200 |
| Westport | 13,763 | 13,852 |
| Westwood | 13,212 | 12,557 |
| Weymouth | 55,601 | 54,063 |
| Whately | 1,341 | 1,375 |
| Whitman | 13,534 | 13,240 |
| Wilbraham | 12,053 | 12,635 |
| Williamsburg | 2,237 | 2,515 |
| Williamstown | 8,741 | 8,220 |
| Wilmington | 17,471 | 17,651 |
| Winchendon | 7,019 | 8,805 |
| Winchester | 20,701 | 20,267 |
| Windsor | 598 | 770 |
| Winthrop | 19,294 | 18,127 |
| Woburn | 36,626 | 35,943 |
| Worcester | 161,799 | 169,759 |
| Worthington | 932 | 1,156 |
| Wrentham | 7,580 | 9,006 |
| Yarmouth | 18,449 | 21,174 |
| Statewide Totals | 5,737,037 | 6,016,425 |

## Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| 0-4 | 1980 | 337,215 | 173,029 | 164,186 |
| | 1985 | 379,282 | 194,237 | 185,045 |
| | 1986 | 387,696 | 198,479 | 189,217 |
| | 1987 | 396,109 | 202,720 | 193,389 |
| | 1988 | 404,522 | 206,962 | 197,560 |
| | 1989 | 412,935 | 211,203 | 201,732 |
| | 1990 | 421,349 | 215,445 | 205,904 |
| | 1991 | 414,476 | 211,926 | 202,550 |
| | 1992 | 407,605 | 208,426 | 199,179 |
| | 1993 | 400,717 | 204,902 | 195,815 |
| | 1994 | 393,842 | 201,388 | 192,454 |
| | 1995 | 386,971 | 197,891 | 189,080 |
| | 1996 | 400,577 | 205,634 | 194,943 |
| | 1997 | 397,006 | 203,938 | 193,068 |
| 5-9 | 1980 | 374,734 | 191,602 | 183,132 |
| | 1985 | 375,677 | 192,542 | 183,135 |
| | 1986 | 375,865 | 192,730 | 183,135 |
| | 1987 | 376,054 | 192,918 | 183,136 |
| | 1988 | 376,242 | 193,106 | 183,136 |
| | 1989 | 376,431 | 193,294 | 183,137 |
| | 1990 | 376,619 | 193,482 | 183,137 |
| | 1991 | 377,918 | 194,157 | 183,761 |
| | 1992 | 379,195 | 194,814 | 184,381 |
| | 1993 | 380,489 | 195,470 | 185,019 |
| | 1994 | 381,766 | 196,130 | 185,636 |
| | 1995 | 383,063 | 196,789 | 186,274 |
| | 1996 | 419,426 | 214,411 | 205,015 |
| | 1997 | 426,542 | 217,880 | 208,662 |
| 10-14 | 1980 | 461,332 | 235,669 | 225,663 |
| | 1985 | 404,174 | 206,784 | 197,390 |
| | 1986 | 392,742 | 201,007 | 191,735 |
| | 1987 | 381,311 | 195,230 | 186,081 |
| | 1988 | 369,879 | 189,453 | 180,426 |
| | 1989 | 358,448 | 183,676 | 174,772 |
| | 1990 | 347,016 | 177,899 | 169,117 |
| | 1991 | 353,412 | 181,166 | 172,246 |
| | 1992 | 359,812 | 184,427 | 175,385 |
| | 1993 | 366,212 | 187,702 | 178,510 |
| | 1994 | 372,612 | 190,963 | 181,649 |
| | 1995 | 379,008 | 194,244 | 184,764 |
| | 1996 | 373,589 | 192,051 | 181,538 |
| | 1997 | 377,989 | 194,400 | 183,589 |

## Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| 15-19 | 1980 | 548,239 | 274,859 | 273,380 |
| | 1985 | 482,135 | 242,074 | 240,061 |
| | 1986 | 468,914 | 235,517 | 233,397 |
| | 1987 | 455,693 | 228,960 | 226,733 |
| | 1988 | 442,472 | 222,403 | 220,069 |
| | 1989 | 429,251 | 215,846 | 213,405 |
| | 1990 | 416,030 | 209,289 | 206,741 |
| | 1991 | 415,428 | 209,079 | 206,349 |
| | 1992 | 414,832 | 208,856 | 205,976 |
| | 1993 | 414,213 | 208,652 | 205,561 |
| | 1994 | 413,615 | 208,424 | 205,191 |
| | 1995 | 413,015 | 208,215 | 204,800 |
| | 1996 | 358,203 | 181,371 | 176,832 |
| | 1997 | 348,468 | 176,659 | 171,809 |
| 20-24 | 1980 | 552,902 | 270,713 | 282,189 |
| | 1985 | 535,048 | 263,685 | 271,363 |
| | 1986 | 531,477 | 262,279 | 269,198 |
| | 1987 | 527,907 | 260,874 | 267,033 |
| | 1988 | 524,335 | 259,468 | 264,867 |
| | 1989 | 520,765 | 258,063 | 262,702 |
| | 1990 | 517,194 | 256,657 | 260,537 |
| | 1991 | 504,121 | 250,187 | 253,934 |
| | 1992 | 491,037 | 243,714 | 247,323 |
| | 1993 | 477,970 | 237,245 | 240,725 |
| | 1994 | 464,885 | 230,763 | 234,122 |
| | 1995 | 451,814 | 224,290 | 227,524 |
| | 1996 | 417,685 | 209,361 | 208,324 |
| | 1997 | 401,538 | 201,637 | 199,901 |
| 25-29 | 1980 | 489,175 | 239,341 | 249,834 |
| | 1985 | 522,748 | 258,318 | 264,430 |
| | 1986 | 529,462 | 262,113 | 267,349 |
| | 1987 | 536,177 | 265,909 | 270,268 |
| | 1988 | 542,891 | 269,704 | 273,187 |
| | 1989 | 549,606 | 273,500 | 276,106 |
| | 1990 | 556,320 | 277,295 | 279,025 |
| | 1991 | 542,906 | 270,616 | 272,290 |
| | 1992 | 529,523 | 263,932 | 265,591 |
| | 1993 | 516,105 | 257,238 | 258,867 |
| | 1994 | 502,715 | 250,549 | 252,166 |
| | 1995 | 489,308 | 243,855 | 245,453 |
| | 1996 | 521,415 | 261,283 | 260,132 |
| | 1997 | 515,333 | 258,372 | 256,961 |

## Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| 30-34 | 1980 | 446,395 | 217,649 | 228,746 |
| | 1985 | 494,363 | 243,175 | 251,188 |
| | 1986 | 503,956 | 248,280 | 255,676 |
| | 1987 | 513,549 | 253,385 | 260,164 |
| | 1988 | 523,143 | 258,491 | 264,652 |
| | 1989 | 532,737 | 263,596 | 269,141 |
| | 1990 | 542,330 | 268,701 | 273,629 |
| | 1991 | 537,086 | 266,041 | 271,045 |
| | 1992 | 531,846 | 263,383 | 268,463 |
| | 1993 | 526,615 | 260,732 | 265,883 |
| | 1994 | 521,377 | 258,059 | 263,318 |
| | 1995 | 516,132 | 255,417 | 260,715 |
| | 1996 | 553,658 | 277,222 | 276,436 |
| | 1997 | 555,269 | 278,411 | 276,858 |
| 35-39 | 1980 | 348,552 | 169,502 | 179,050 |
| | 1985 | 414,863 | 203,352 | 211,511 |
| | 1986 | 428,125 | 210,122 | 218,003 |
| | 1987 | 441,387 | 216,892 | 224,495 |
| | 1988 | 454,650 | 223,662 | 230,988 |
| | 1989 | 467,912 | 230,432 | 237,480 |
| | 1990 | 481,174 | 237,202 | 243,972 |
| | 1991 | 487,579 | 240,363 | 247,216 |
| | 1992 | 493,998 | 243,516 | 250,482 |
| | 1993 | 500,412 | 246,690 | 253,722 |
| | 1994 | 506,839 | 249,845 | 256,994 |
| | 1995 | 513,237 | 253,015 | 260,222 |
| | 1996 | 539,992 | 267,021 | 272,971 |
| | 1997 | 549,744 | 271,971 | 277,773 |
| 40-44 | 1980 | 278,748 | 134,925 | 143,823 |
| | 1985 | 356,061 | 173,162 | 182,899 |
| | 1986 | 371,523 | 180,809 | 190,714 |
| | 1987 | 386,986 | 188,457 | 198,529 |
| | 1988 | 402,449 | 196,104 | 206,345 |
| | 1989 | 417,912 | 203,752 | 214,160 |
| | 1990 | 433,374 | 211,399 | 221,975 |
| | 1991 | 443,742 | 216,488 | 227,254 |
| | 1992 | 454,118 | 221,573 | 232,545 |
| | 1993 | 464,496 | 226,676 | 237,820 |
| | 1994 | 474,880 | 231,775 | 243,105 |
| | 1995 | 485,243 | 236,878 | 248,365 |
| | 1996 | 476,967 | 234,097 | 242,870 |
| | 1997 | 484,195 | 237,863 | 246,332 |

## Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| 45-49 | 1980 | 278,261 | 134,444 | 143,817 |
| | 1985 | 305,798 | 148,540 | 157,258 |
| | 1986 | 311,305 | 151,359 | 159,946 |
| | 1987 | 316,812 | 154,178 | 162,634 |
| | 1988 | 322,320 | 156,998 | 165,322 |
| | 1989 | 327,827 | 159,817 | 168,010 |
| | 1990 | 333,334 | 162,636 | 170,698 |
| | 1991 | 345,718 | 168,718 | 177,000 |
| | 1992 | 358,097 | 174,792 | 183,305 |
| | 1993 | 370,466 | 180,887 | 189,579 |
| | 1994 | 382,849 | 186,970 | 195,879 |
| | 1995 | 395,230 | 193,058 | 202,172 |
| | 1996 | 439,744 | 213,657 | 226,087 |
| | 1997 | 457,489 | 222,158 | 235,331 |
| 50-54 | 1980 | 306,574 | 146,211 | 160,363 |
| | 1985 | 284,588 | 136,396 | 148,192 |
| | 1986 | 280,190 | 134,433 | 145,757 |
| | 1987 | 275,793 | 132,470 | 143,323 |
| | 1988 | 271,396 | 130,507 | 140,889 |
| | 1989 | 266,998 | 128,544 | 138,454 |
| | 1990 | 262,601 | 126,581 | 136,020 |
| | 1991 | 277,035 | 133,625 | 143,410 |
| | 1992 | 291,457 | 140,648 | 150,809 |
| | 1993 | 305,890 | 147,680 | 158,210 |
| | 1994 | 320,312 | 154,723 | 165,589 |
| | 1995 | 334,748 | 161,763 | 172,985 |
| | 1996 | 336,677 | 163,543 | 173,134 |
| | 1997 | 349,020 | 169,697 | 179,323 |
| 55-59 | 1980 | 310,995 | 145,603 | 165,392 |
| | 1985 | 281,585 | 132,889 | 148,696 |
| | 1986 | 275,702 | 130,346 | 145,356 |
| | 1987 | 269,820 | 127,803 | 142,017 |
| | 1988 | 263,939 | 125,261 | 138,678 |
| | 1989 | 258,056 | 122,718 | 135,338 |
| | 1990 | 252,174 | 120,175 | 131,999 |
| | 1991 | 258,415 | 123,216 | 135,199 |
| | 1992 | 264,664 | 126,264 | 138,400 |
| | 1993 | 270,924 | 129,325 | 141,599 |
| | 1994 | 277,173 | 132,360 | 144,813 |
| | 1995 | 283,414 | 135,406 | 148,008 |
| | 1996 | 249,014 | 119,241 | 129,773 |
| | 1997 | 248,488 | 119,076 | 129,412 |

### Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| 60-64 | 1980 | 277,384 | 126,323 | 151,061 |
| | 1985 | 269,645 | 123,966 | 145,679 |
| | 1986 | 268,097 | 123,495 | 144,602 |
| | 1987 | 266,549 | 123,023 | 143,526 |
| | 1988 | 265,001 | 122,552 | 142,449 |
| | 1989 | 263,453 | 122,080 | 141,373 |
| | 1990 | 261,905 | 121,609 | 140,296 |
| | 1991 | 259,702 | 120,630 | 139,072 |
| | 1992 | 257,490 | 119,652 | 137,838 |
| | 1993 | 255,294 | 118,691 | 136,603 |
| | 1994 | 253,082 | 117,704 | 135,378 |
| | 1995 | 250,879 | 116,732 | 134,147 |
| | 1996 | 224,406 | 105,192 | 119,214 |
| | 1997 | 218,162 | 102,461 | 115,701 |
| 65-69 | 1980 | 235,574 | 101,023 | 134,551 |
| | 1985 | 243,479 | 105,724 | 137,755 |
| | 1986 | 245,060 | 106,664 | 138,396 |
| | 1987 | 246,641 | 107,604 | 139,037 |
| | 1988 | 248,221 | 108,544 | 139,677 |
| | 1989 | 249,802 | 109,484 | 140,318 |
| | 1990 | 251,383 | 110,424 | 140,959 |
| | 1991 | 248,181 | 109,072 | 139,109 |
| | 1992 | 244,981 | 107,708 | 137,273 |
| | 1993 | 241,769 | 106,353 | 135,416 |
| | 1994 | 238,566 | 104,997 | 133,569 |
| | 1995 | 235,367 | 103,640 | 131,727 |
| | 1996 | 227,821 | 102,703 | 125,118 |
| | 1997 | 223,878 | 101,420 | 122,458 |
| 70-74 | 1980 | 187,041 | 73,235 | 113,806 |
| | 1985 | 197,186 | 79,388 | 117,798 |
| | 1986 | 199,215 | 80,619 | 118,596 |
| | 1987 | 201,244 | 81,849 | 119,395 |
| | 1988 | 203,273 | 83,080 | 120,193 |
| | 1989 | 205,302 | 84,310 | 120,992 |
| | 1990 | 207,331 | 85,541 | 121,790 |
| | 1991 | 208,014 | 85,869 | 122,145 |
| | 1992 | 208,703 | 86,208 | 122,495 |
| | 1993 | 209,396 | 86,535 | 122,861 |
| | 1994 | 210,085 | 86,874 | 123,211 |
| | 1995 | 210,767 | 87,205 | 123,562 |
| | 1996 | 225,504 | 94,648 | 130,856 |
| | 1997 | 228,562 | 96,179 | 132,383 |

## Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

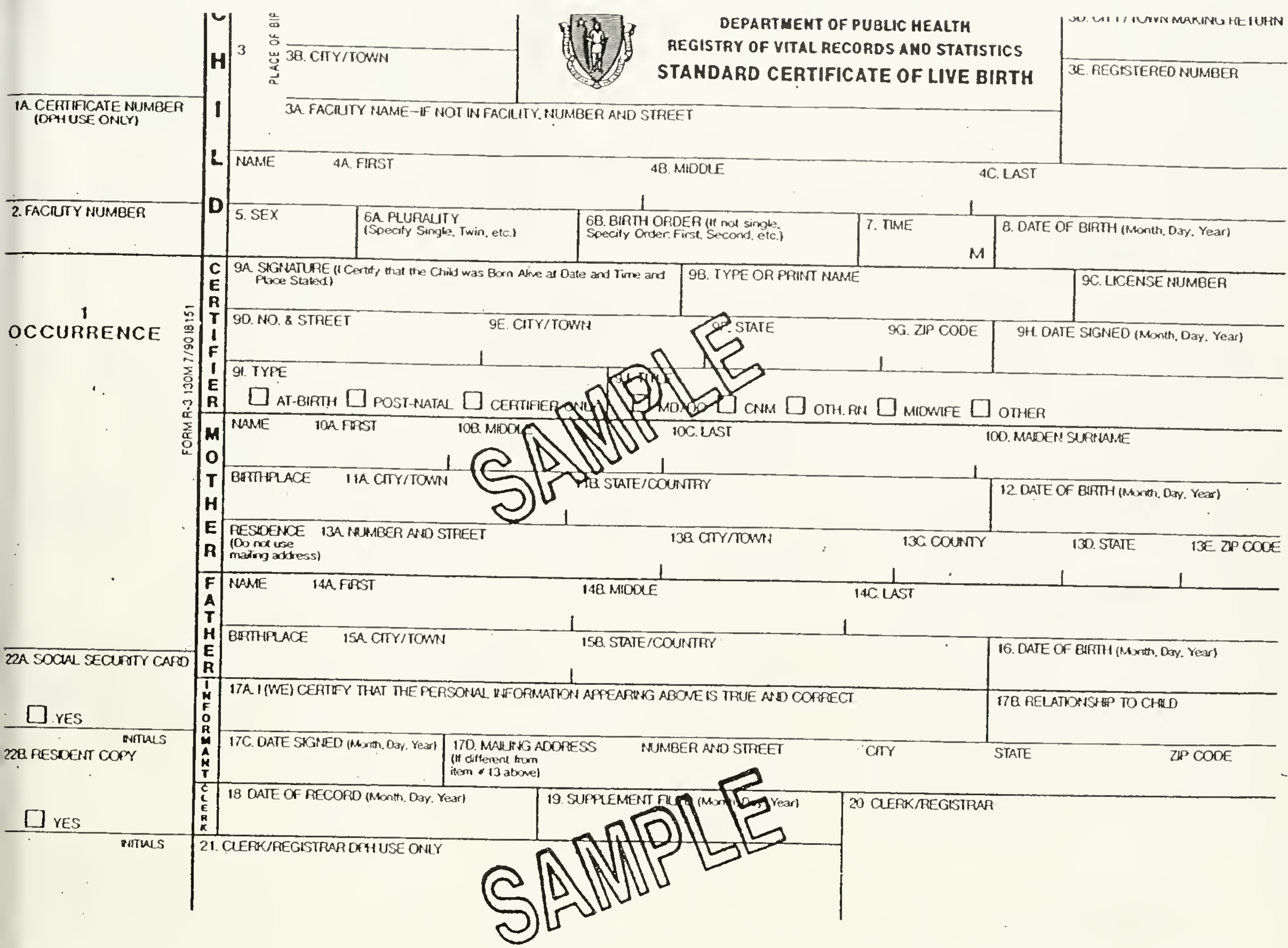
| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| 75-79 | 1980 | 137,828 | 48,145 | 89,683 |
| | 1985 | 148,741 | 53,591 | 95,150 |
| | 1986 | 150,923 | 54,680 | 96,243 |
| | 1987 | 153,105 | 55,769 | 97,336 |
| | 1988 | 155,288 | 56,859 | 98,429 |
| | 1989 | 157,471 | 57,948 | 99,523 |
| | 1990 | 159,653 | 59,037 | 100,616 |
| | 1991 | 162,139 | 59,983 | 102,156 |
| | 1992 | 164,614 | 60,933 | 103,681 |
| | 1993 | 167,101 | 61,880 | 105,221 |
| | 1994 | 169,576 | 62,818 | 106,758 |
| | 1995 | 172,062 | 63,780 | 108,282 |
| | 1996 | 174,088 | 67,606 | 106,482 |
| | 1997 | 176,519 | 69,038 | 107,481 |
| 80-84 | 1980 | 92,180 | 28,513 | 63,667 |
| | 1985 | 99,240 | 30,991 | 68,249 |
| | 1986 | 100,651 | 31,486 | 69,165 |
| | 1987 | 102,064 | 31,982 | 70,082 |
| | 1988 | 103,475 | 32,477 | 70,998 |
| | 1989 | 104,888 | 32,973 | 71,915 |
| | 1990 | 106,299 | 33,468 | 72,831 |
| | 1991 | 108,378 | 34,156 | 74,222 |
| | 1992 | 110,457 | 34,867 | 75,590 |
| | 1993 | 112,539 | 35,553 | 76,986 |
| | 1994 | 114,616 | 36,230 | 78,386 |
| | 1995 | 116,695 | 36,921 | 79,774 |
| | 1996 | 122,268 | 40,991 | 81,277 |
| | 1997 | 124,935 | 42,264 | 82,671 |
| ≥ 85 | 1980 | 73,908 | 20,107 | 53,801 |
| | 1985 | 82,124 | 21,006 | 61,118 |
| | 1986 | 83,767 | 21,186 | 62,581 |
| | 1987 | 85,410 | 21,366 | 64,044 |
| | 1988 | 87,052 | 21,545 | 65,507 |
| | 1989 | 88,696 | 21,725 | 66,971 |
| | 1990 | 90,339 | 21,905 | 68,434 |
| | 1991 | 94,434 | 22,982 | 71,452 |
| | 1992 | 98,514 | 24,044 | 74,470 |
| | 1993 | 102,592 | 25,104 | 77,488 |
| | 1994 | 106,670 | 26,174 | 80,496 |
| | 1995 | 110,766 | 27,240 | 83,526 |
| | 1996 | 102,012 | 24,681 | 77,331 |
| | 1997 | 104,043 | 25,184 | 78,859 |

## Table F-4. Population Counts and Estimates, Massachusetts: 1980, 1985-1997

| AGE GROUP | YEAR | TOTAL | MALE | FEMALE |
|---|---|---|---|---|
| TOTAL | 1980 | 5,737,037 | 2,730,893 | 3,006,144 |
| | 1985 | 5,876,737 | 2,809,820 | 3,066,917 |
| | 1986 | 5,904,670 | 2,825,604 | 3,079,066 |
| | 1987 | 5,932,611 | 2,841,389 | 3,091,222 |
| | 1988 | 5,960,548 | 2,857,176 | 3,103,372 |
| | 1989 | 5,988,490 | 2,872,961 | 3,115,529 |
| | 1990 | 6,016,425 | 2,888,745 | 3,127,680 |
| | 1991 | 6,038,684 | 2,898,274 | 3,140,410 |
| | 1992 | 6,060,943 | 2,907,757 | 3,153,186 |
| | 1993 | 6,083,200 | 2,917,315 | 3,165,885 |
| | 1994 | 6,105,460 | 2,926,746 | 3,178,714 |
| | 1995 | 6,127,719 | 2,936,339 | 3,191,380 |
| | 1996 | 6,163,046 | 2,974,713 | 3,188,333 |
| | 1997[1] | 6,187,181 | 2,988,608 | 3,198,572 |

[1] The 1997 population numbers were produced by extrapolation from existing population estimates and do not represent whole numbers. Since population data are not reported at the decimal point level, the sums of subgroups may not always add up to the total numbers given, due to rounding.,

# APPENDICES



DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS
**STANDARD CERTIFICATE OF LIVE BIRTH**

1A. CERTIFICATE NUMBER (DPH USE ONLY)

2. FACILITY NUMBER

1
OCCURRENCE

FORM R-3 130M 7/90 18151

**CHILD**

3 PLACE OF BIR

3B. CITY/TOWN

3D. CITY/TOWN MAKING RETURN

3E. REGISTERED NUMBER

3A. FACILITY NAME—IF NOT IN FACILITY, NUMBER AND STREET

NAME 4A. FIRST 4B. MIDDLE 4C. LAST

5. SEX

6A. PLURALITY (Specify Single, Twin, etc.)

6B. BIRTH ORDER (If not single, Specify Order: First, Second, etc.)

7. TIME M

8. DATE OF BIRTH (Month, Day, Year)

**CERTIFIER**

9A. SIGNATURE (I Certify that the Child was Born Alive at Date and Time and Place Stated.)

9B. TYPE OR PRINT NAME

9C. LICENSE NUMBER

9D. NO. & STREET 9E. CITY/TOWN 9F. STATE 9G. ZIP CODE

9H. DATE SIGNED (Month, Day, Year)

9I. TYPE ☐ AT-BIRTH ☐ POST-NATAL ☐ CERTIFIER ONLY

9J. TITLE ☐ MD/DO ☐ CNM ☐ OTH. RN ☐ MIDWIFE ☐ OTHER

**MOTHER**

NAME 10A. FIRST 10B. MIDDLE 10C. LAST 10D. MAIDEN SURNAME

BIRTHPLACE 11A. CITY/TOWN 11B. STATE/COUNTRY

12. DATE OF BIRTH (Month, Day, Year)

RESIDENCE (Do not use mailing address) 13A. NUMBER AND STREET 13B. CITY/TOWN 13C. COUNTY 13D. STATE 13E. ZIP CODE

**FATHER**

NAME 14A. FIRST 14B. MIDDLE 14C. LAST

BIRTHPLACE 15A. CITY/TOWN 15B. STATE/COUNTRY

16. DATE OF BIRTH (Month, Day, Year)

**INFORMANT**

17A. I (WE) CERTIFY THAT THE PERSONAL INFORMATION APPEARING ABOVE IS TRUE AND CORRECT

17B. RELATIONSHIP TO CHILD

17C. DATE SIGNED (Month, Day, Year)

17D. MAILING ADDRESS (If different from item # 13 above) NUMBER AND STREET CITY STATE ZIP CODE

**CLERK**

18. DATE OF RECORD (Month, Day, Year)

19. SUPPLEMENT FILED (Month, Day, Year)

20. CLERK/REGISTRAR

21. CLERK/REGISTRAR DPH USE ONLY

22A. SOCIAL SECURITY CARD

☐ YES

INITIALS

22B. RESIDENT COPY

☐ YES

INITIALS

SAMPLE

SAMPLE

PHYSICIANS AND
MEDICAL EXAMINERS

STANDARD CERTIFICATE OF DEATH
REGISTRY OF VITAL RECORDS AND STATISTICS

REGISTERED NUMBER

STATE USE ONLY

| STATE USE ONLY | |
|---|---|
| 4a | PLACE |
| 4c | HOSP. |
| 5 | TYPE |
| 7 | VET. |
| 8 | HISP / RACE |
| 9 | EDUC. |
| 10 | AGE |
| 11 | NATIVITY |
| 12 | MARITAL |
| 15 | RESID |
| 15 | OUT-STATE |
| 23 | DISP |
| 31-32 | AUTOP |
| 33 | MED EXAM |
| 34 | MANNER |
| 35C | WORK INJ |
| 35F | PLACE |
| 36-37 | CERT |
| 40A | RN PRO |

**DECEDENT**

DECEDENT - NAME FIRST MIDDLE LAST 1
SEX 2
DATE OF DEATH *(Mo., Day, Yr.)* 3
PLACE OF DEATH *(City/Town)* 4a
COUNTY OF DEATH 4b
HOSPITAL OR OTHER INSTITUTION Name *(If not in either, give street and number)* 4c
PLACE OF DEATH *(Check only one)* 5
HOSPITAL: ☐ Inpatient ☐ ER/Outpatient ☐ DOA
OTHER ☐ Nursing Home ☐ Residence ☐ Other *(Specify)*
SOCIAL SECURITY NUMBER 6
IF US WAR VETERAN SPECIFY WAR 7
WAS DECEDENT OF HISPANIC ORIGIN? *(If yes, Specify Puerto Rican, Dominican, Cuban, etc.)* ☐ NO ☐ YES 8a Specify:
RACE *(e.g. White, Black, American Indian, etc.)* *(Specify)* 8b
DECEDENT'S EDUCATION (Highest Grade Completed) Elem/Sec (0-12) | College (1-4, 5+) 9
AGE - Last Birthday *(Yrs.)* 10a
UNDER 1 YEAR MOS DAYS b
UNDER 1 DAY HOURS MINS c
DATE OF BIRTH *(Mo., Day, Yr.)* 10d
BIRTHPLACE *(City and State or Foreign Country)* 11
MARRIED, NEVER MARRIED WIDOWED OR DIVORCED 12
LAST SPOUSE *(If wife, give maiden name)* 13
USUAL OCCUPATION *(Prior - If retired)* 14a
KIND OF BUSINESS OR INDUSTRY 14b
RESIDENCE - NO. & ST., CITY/TOWN, COUNTY, STATE/COUNTRY 15a
ZIP CODE 15b
FATHER - FULL NAME 16
STATE OF BIRTH *(If not in US, name country)* 17
MOTHER - NAME (GIVEN) (MAIDEN) 18
STATE OF BIRTH *(If not in US, name country)* 19

SAMPLE

**INFORMANT**

INFORMANT'S NAME 20
MAILING ADDRESS - NO. & ST., CITY/TOWN, STATE, ZIP CODE 21
RELATIONSHIP 22

**DISPOSITION**

METHOD OF DISPOSITION 23
☐ BURIAL ☐ CREMATION
☐ ENTOMBMENT ☐ REMOVAL FROM STATE
☐ DONATION ☐ OTH. SPEC:
FUNERAL SERVICE LICENSEE 24
LICENSE # 25
PLACE OF DISPOSITION *(Name of Cemetery, Crematory or other)* 26a
LOCATION *(City/Town, State)* 26b
DATE OF DISPOSITION *(Mo., Day, Yr.)* 27
NAME AND ADDRESS OF FACILITY 28a/b

29 PART I - Enter the diseases, injuries, or complications that caused the death. Do not use only the mode of dying, such as cardiac or respiratory arrest, shock or heart failure. List only one cause on each line (a through d). PRINT OR TYPE LEGIBLY.

Approximate Interval Between Onset and Death

IMMEDIATE CAUSE (Final disease or condition resulting in death) → a

DUE TO (OR AS A CONSEQUENCE OF)

Sequentially list conditions, if any leading to immediate cause. Enter UNDERLYING CAUSE (disease or injury that initiated events resulting in death) LAST.

b

DUE TO (OR AS A CONSEQUENCE OF)

c

DUE TO (OR AS A CONSEQUENCE OF)

d

SAMPLE

PART II - Other significant conditions contributing to death but not resulting in underlying cause given in Part I. 30
WAS AUTOPSY PERFORMED? *(Yes or No)* 31
WERE AUTOPSY FINDINGS AVAILABLE PRIOR TO COMPLETION OF CAUSE OF DEATH? *(Yes or No)* 32

**CERTIFIER**

WAS CASE REFERRED TO M.E.? *(Yes or No)* 33
34 MANNER OF DEATH
☐ NATURAL ☐ HOMICIDE ☐ COULD NOT BE DETERMINED
☐ ACCIDENT ☐ SUICIDE ☐ PENDING INVESTIGATION
DATE OF INJURY *(Mo., Day, Yr.)* 35a
TIME OF INJURY 35b M
INJURY AT WORK *(Yes or No)* 35c
DESCRIBE HOW INJURY OCCURRED 35d
PLACE OF INJURY - *At home, farm, street, factory, office bldg., etc. Specify* 35e
LOCATION *(No. & St., City/Town, State)* 35f

To be Completed by CERTIFYING PHYSICIAN Only
36a *To the best of my knowledge, death occurred at the time, date, and place and due to the cause(s) stated.* *(Signature and Title)*
DATE SIGNED *(Mo., Day, Yr.)* 36b
HOUR OF DEATH 36c M
NAME OF ATTENDING PHYSICIAN IF NOT CERTIFIER 36d

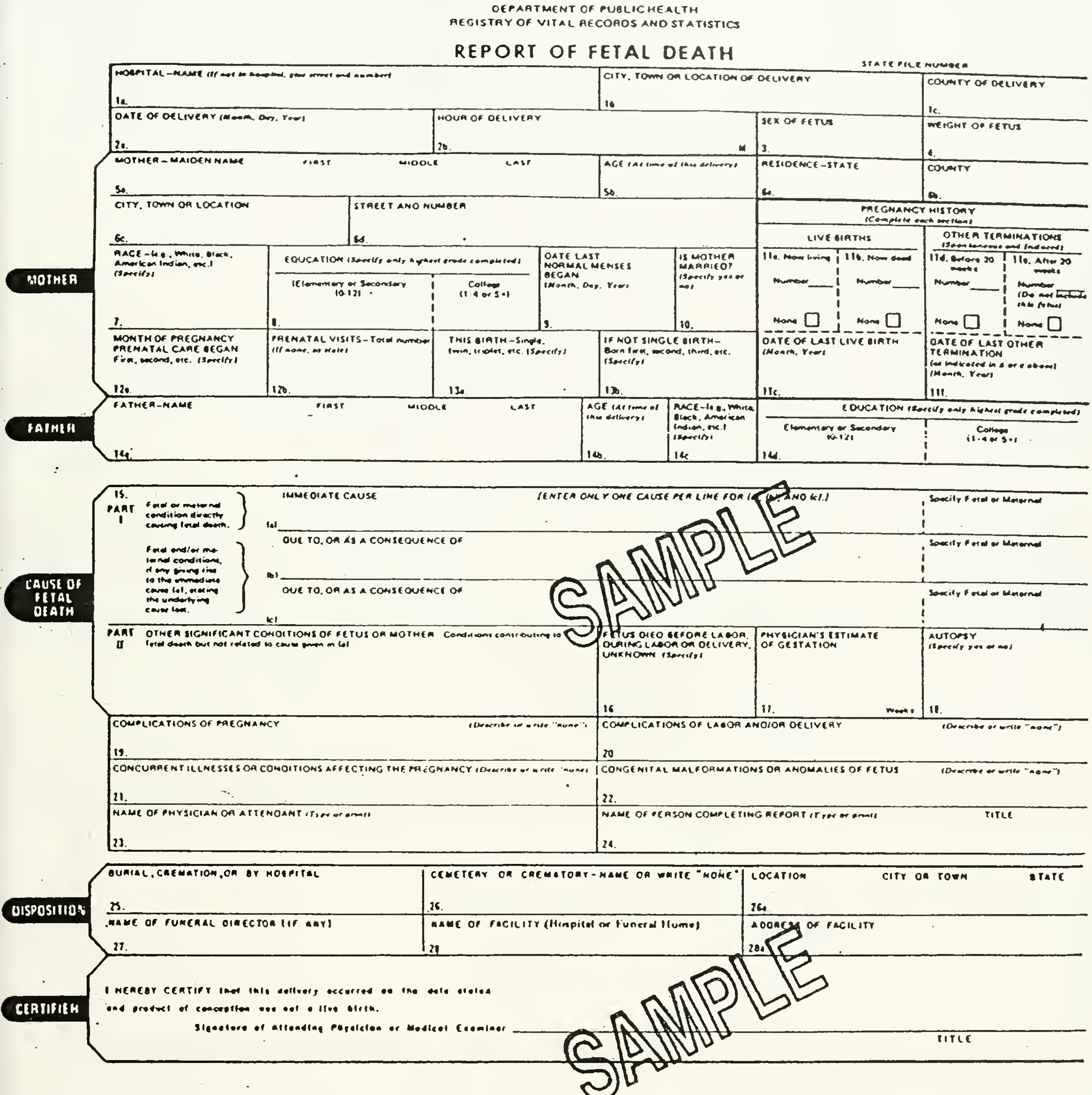
To Be Completed by MEDICAL EXAMINER Only
37a *On the basis of examination and/or investigation in my opinion death occurred at the time, date, and place and due to the cause(s) stated.* *(Signature and Title)*
DATE SIGNED *(Mo., Day, Yr.)* 37b
HOUR OF DEATH 37c M
PRONOUNCED DEAD *(Mo., Day, Yr.)* 37d
PRONOUNCED DEAD *(Hr.)* 37e M

NAME AND ADDRESS OF CERTIFYING PHYSICIAN OR MEDICAL EXAMINER *(Type or Print)* 38
LICENSE NO. OF CERTIFIER 39
WAS THERE AN R.N. PRONOUNCEMENT? Yes or No 40a
IF YES, DATE PRONOUNCED 40b
IF YES, TIME PRONOUNCED 40c M
40d NAME OF PRONOUNCING REGISTERED NURSE NAME

DATE BURIAL PERMIT ISSUED:
SIGNATURE - BD. OF HEALTH AGENT 41
RECEIVED IN THE CITY/TOWN OF:
CLERK'S SIGNATURE 42
DATE OF RECORD 43

BLACK INK ONLY

R-301-89



DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS

## REPORT OF FETAL DEATH

STATE FILE NUMBER

1a. HOSPITAL—NAME *(If not in hospital, give street and number)*
1b. CITY, TOWN OR LOCATION OF DELIVERY
1c. COUNTY OF DELIVERY
2a. DATE OF DELIVERY *(Month, Day, Year)*
2b. HOUR OF DELIVERY M
3. SEX OF FETUS
4. WEIGHT OF FETUS

**MOTHER**

5a. MOTHER—MAIDEN NAME FIRST MIDDLE LAST
5b. AGE *(At time of this delivery)*
6a. RESIDENCE—STATE
6b. COUNTY
6c. CITY, TOWN OR LOCATION
6d. STREET AND NUMBER
7. RACE—(e.g., White, Black, American Indian, etc.) *(Specify)*
8. EDUCATION *(Specify only highest grade completed)* (Elementary or Secondary (0-12)) College (1-4 or 5+)
9. DATE LAST NORMAL MENSES BEGAN *(Month, Day, Year)*
10. IS MOTHER MARRIED? *(Specify yes or no)*

PREGNANCY HISTORY *(Complete each section)*

LIVE BIRTHS

11a. Now living Number____ None ☐
11b. Now dead Number____ None ☐
11c. DATE OF LAST LIVE BIRTH *(Month, Year)*

OTHER TERMINATIONS *(Spontaneous and Induced)*

11d. Before 20 weeks Number____ None ☐
11e. After 20 weeks Number *(Do not include this fetus)* None ☐
11f. DATE OF LAST OTHER TERMINATION (as indicated in d or e above) *(Month, Year)*

12a. MONTH OF PREGNANCY PRENATAL CARE BEGAN First, second, etc. *(Specify)*
12b. PRENATAL VISITS—Total number *(If none, so state)*
13a. THIS BIRTH—Single, twin, triplet, etc. *(Specify)*
13b. IF NOT SINGLE BIRTH—Born first, second, third, etc. *(Specify)*

**FATHER**

14a. FATHER—NAME FIRST MIDDLE LAST
14b. AGE *(At time of this delivery)*
14c. RACE—(e.g., White, Black, American Indian, etc.) *(Specify)*
14d. EDUCATION *(Specify only highest grade completed)* Elementary or Secondary (0-12) College (1-4 or 5+)

**CAUSE OF FETAL DEATH**

15. PART I

Fetal or maternal condition directly causing fetal death. IMMEDIATE CAUSE *(ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c).)*
(a) ____ Specify Fetal or Maternal
DUE TO, OR AS A CONSEQUENCE OF
Fetal and/or maternal conditions, if any giving rise to the immediate cause (a), stating the underlying cause last.
(b) ____ Specify Fetal or Maternal
DUE TO, OR AS A CONSEQUENCE OF
(c) ____ Specify Fetal or Maternal

PART II OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER Conditions contributing to fetal death but not related to cause given in (a)

16. FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN *(Specify)*
17. PHYSICIAN'S ESTIMATE OF GESTATION Weeks
18. AUTOPSY *(Specify yes or no)*
19. COMPLICATIONS OF PREGNANCY *(Describe or write "none")*
20. COMPLICATIONS OF LABOR AND/OR DELIVERY *(Describe or write "none")*
21. CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY *(Describe or write "none")*
22. CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS *(Describe or write "none")*
23. NAME OF PHYSICIAN OR ATTENDANT *(Type or print)*
24. NAME OF PERSON COMPLETING REPORT *(Type or print)* TITLE

**DISPOSITION**

25. BURIAL, CREMATION, OR BY HOSPITAL
26. CEMETERY OR CREMATORY—NAME OR WRITE "NONE"
26a. LOCATION CITY OR TOWN STATE
27. NAME OF FUNERAL DIRECTOR (IF ANY)
28. NAME OF FACILITY (Hospital or Funeral Home)
28a. ADDRESS OF FACILITY

**CERTIFIER**

I HEREBY CERTIFY that this delivery occurred on the date stated and product of conception was not a live birth.

Signature of Attending Physician or Medical Examiner ________ TITLE

SAMPLE

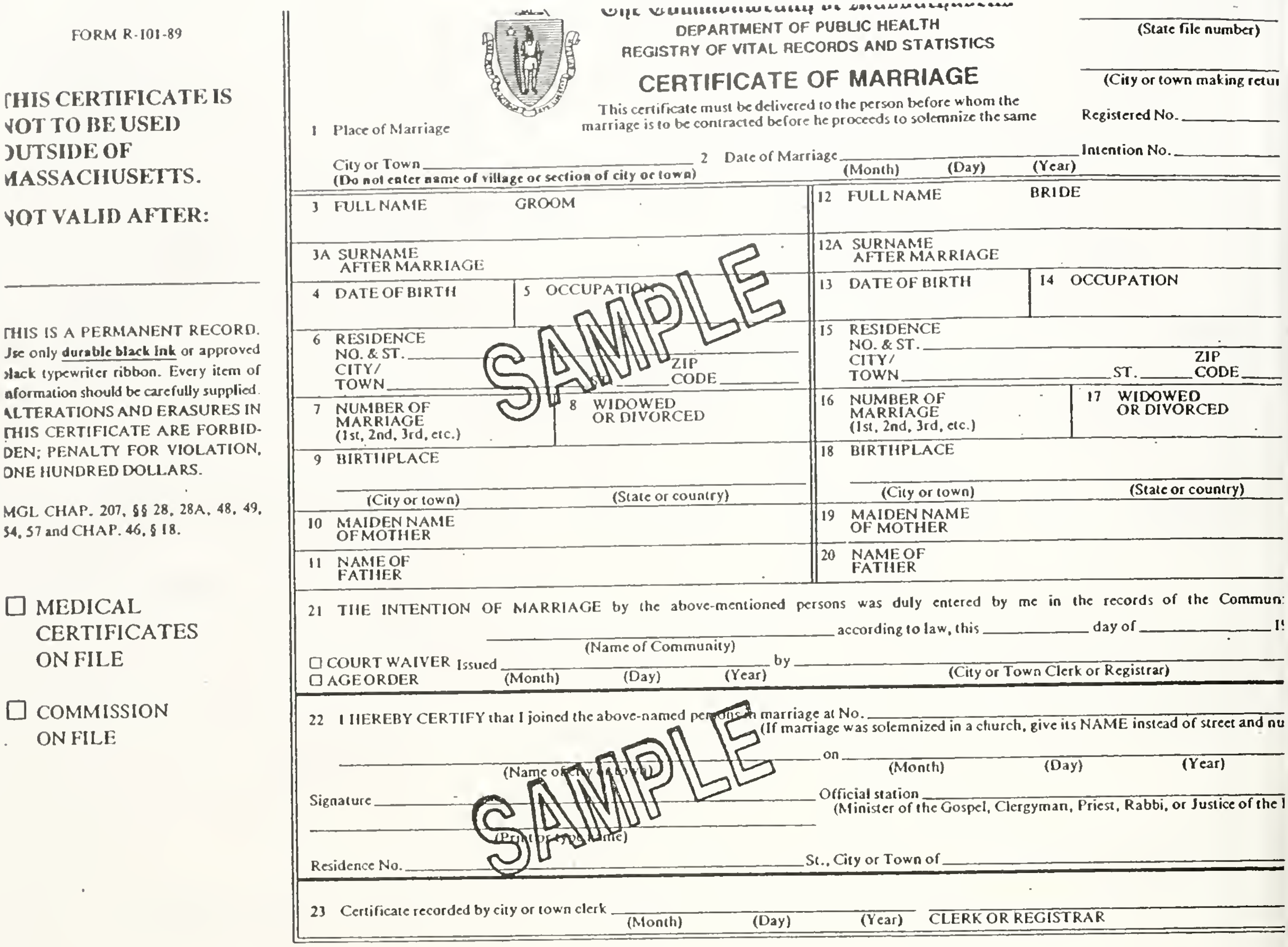
SAMPLE

**DEFINITION:** "Fetal death" per chapter 111 section 202 of the M.G.L. means death prior to the complete expulsion or extraction from its mother of a fetus, irrespective of the duration of pregnancy, as indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. A fetal death does NOT include an induced abortion as defined in section 12K of chapter 112 of M.G.L.. Spontaneous abortions are to be included.

**TO BE REPORTED:** Only fetal deaths of twenty weeks or more gestation or of a weight of 350 grams or more are to be reported.

**INSTRUCTIONS:** Return completed reported within 10 days to the Registry of Vital Records and Statistics, Rm.

FORM R-304-5M 11/77 PHR.



FORM R-101-89

**THIS CERTIFICATE IS NOT TO BE USED OUTSIDE OF MASSACHUSETTS.**

**NOT VALID AFTER:**

THIS IS A PERMANENT RECORD. Use only durable black ink or approved black typewriter ribbon. Every item of information should be carefully supplied. ALTERATIONS AND ERASURES IN THIS CERTIFICATE ARE FORBIDDEN; PENALTY FOR VIOLATION, ONE HUNDRED DOLLARS.

MGL CHAP. 207, §§ 28, 28A, 48, 49, 54, 57 and CHAP. 46, § 18.

☐ MEDICAL CERTIFICATES ON FILE

☐ COMMISSION ON FILE

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH

REGISTRY OF VITAL RECORDS AND STATISTICS

## CERTIFICATE OF MARRIAGE

This certificate must be delivered to the person before whom the marriage is to be contracted before he proceeds to solemnize the same

_______ (State file number)

_______ (City or town making retu

Registered No. _______

Intention No. _______

1 Place of Marriage

City or Town _______ (Do not enter name of village or section of city or town)

2 Date of Marriage _______ (Month) (Day) (Year)

SAMPLE

| | |
|---|---|
| 3 FULL NAME GROOM | 12 FULL NAME BRIDE |
| 3A SURNAME AFTER MARRIAGE | 12A SURNAME AFTER MARRIAGE |
| 4 DATE OF BIRTH | 13 DATE OF BIRTH |
| 5 OCCUPATION | 14 OCCUPATION |
| 6 RESIDENCE NO. & ST. _______ CITY/TOWN _______ ST. _______ ZIP CODE _______ | 15 RESIDENCE NO. & ST. _______ CITY/TOWN _______ ST. _______ ZIP CODE _______ |
| 7 NUMBER OF MARRIAGE (1st, 2nd, 3rd, etc.) | 16 NUMBER OF MARRIAGE (1st, 2nd, 3rd, etc.) |
| 8 WIDOWED OR DIVORCED | 17 WIDOWED OR DIVORCED |
| 9 BIRTHPLACE _______ (City or town) (State or country) | 18 BIRTHPLACE _______ (City or town) (State or country) |
| 10 MAIDEN NAME OF MOTHER | 19 MAIDEN NAME OF MOTHER |
| 11 NAME OF FATHER | 20 NAME OF FATHER |

21 THE INTENTION OF MARRIAGE by the above-mentioned persons was duly entered by me in the records of the Commun _______ (Name of Community) according to law, this _______ day of _______ 19

☐ COURT WAIVER Issued _______ (Month) (Day) (Year) by _______ (City or Town Clerk or Registrar)

☐ AGE ORDER

22 I HEREBY CERTIFY that I joined the above-named persons in marriage at No. _______ (If marriage was solemnized in a church, give its NAME instead of street and nu

_______ (Name of city or town) on _______ (Month) (Day) (Year)

Signature _______ Official station _______ (Minister of the Gospel, Clergyman, Priest, Rabbi, or Justice of the I

_______ (Print or type name)

Residence No. _______ St., City or Town of _______

SAMPLE

23 Certificate recorded by city or town clerk _______ (Month) (Day) (Year) _______ CLERK OR REGISTRAR

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH

REGISTRY OF VITAL RECORDS AND STATISTICS

# CERTIFICATE OF ABSOLUTE DIVORCE OR ANNULMENT

(Chap. 208, Sec. 46 G.L.)

R-408

**HUSBAND**

| | | | |
|---|---|---|---|
| HUSBAND - NAME | FIRST | MIDDLE | LAST |
| USUAL RESIDENCE - STREET ADDRESS<br>2a. | | CITY, TOWN OR LOCATION<br>2b. | |
| COUNTY<br>2c. | STATE<br>2d. | DATE OF BIRTH *(Mo., Day, Yr.)*<br>3 | NUMBER OF THIS MARRIAGE *(1st, 2nd, Specify)*<br>4 |

**WIFE**

| | | | |
|---|---|---|---|
| WIFE NAME<br>5a. | FIRST | MIDDLE | LAST |
| | | | MAIDEN NAME<br>5b. |
| USUAL RESIDENCE - STREET ADDRESS<br>6a. | | CITY, TOWN OR LOCATION<br>6b | |
| COUNTY<br>6c. | STATE<br>6d | DATE OF BIRTH *(Mo., Day, Yr.)*<br>7 | NUMBER OF THIS MARRIAGE *(1st, 2nd, Specify)*<br>8 |

| | | |
|---|---|---|
| DATE OF THIS MARRIAGE *(Mo., Day, Yr.)*<br>9 | NUMBER OF CHILDREN BORN ALIVE OF THIS MARRIAGE<br>10a. | NUMBER OF CHILDREN UNDER AGE 18 IN THIS FAMILY<br>10b. |

SAMPLE

**JUDGMENT**

*FOR COURT USE ONLY*

| | | | |
|---|---|---|---|
| COUNTY OF JUDGMENT<br>11. | | TITLE OF COURT<br>11a. | |
| DATE OF JUDGMENT NISI *(Mo., Day, Yr.)*<br>12. | TYPE OF JUDGMENT - DIVORCE OR ANNULMENT *(Specify)*<br>13 | | DATE OF JUDGMENT ABSOLUTE *(Mo., Day, Yr.)*<br>14. |
| DOCKET NUMBER<br>15. | NAME OF PLAINTIFF<br>16. | CAUSE FOR WHICH GRANTED<br>17 | |
| SIGNATURE OF CERTIFYING OFFICIAL<br>18a. | | TITLE OF OFFICIAL<br>18b | |

SAMPLE

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Ramona A. Irving, Administrative Assistant

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